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BULLETIN OF

HUMBOLDT STATE COLLEGE



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JUNE 1, 1955

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BULLETIN
FOR THE YEAR 1955-1956
HUMBOLDT STATE COLLEGE
ARCATA, CALIFORNIA

A FIVE-YEAR COLLEGE

ACCREDITED BY THE WESTERN COLLEGE ASSOCIATION AND THE
STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic College.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College	Fresno
Humboldt State College.....	Arcata
Los Angeles State College of Applied Arts and Sciences	Los Angeles
Long Beach State College.....	Long Beach
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

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UNIVERSITY OF ILLINOIS

BULLETIN

FOR THE YEAR 1955-1956

HUMBOLDT STATE COLLEGE

ARCATA, CALIFORNIA

A FIVE-YEAR COLLEGE

ASSOCIATE TO THE NORTHERN CALIFORNIA ASSOCIATION AND THE
STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

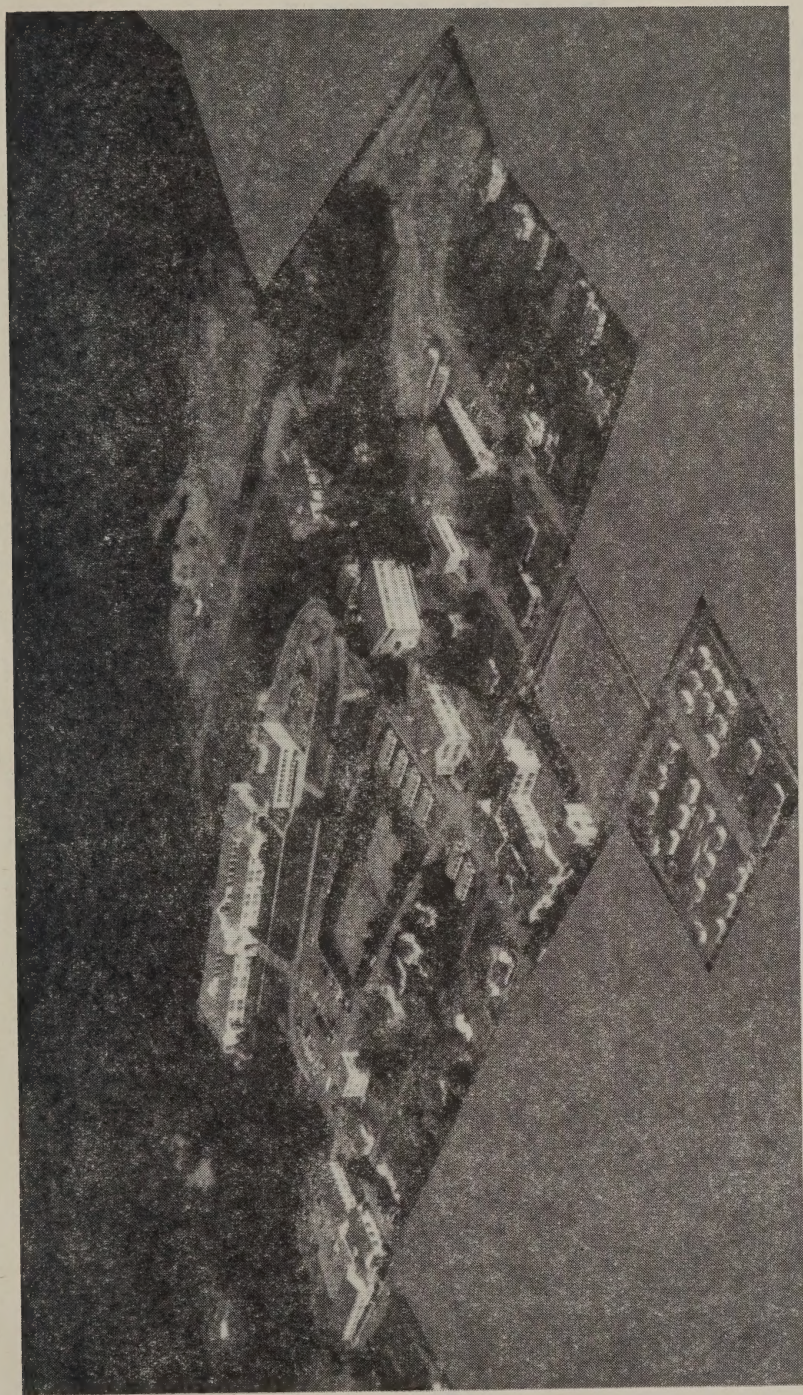
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Florida State College	Florida
Humboldt State College	Arcata
Los Angeles State College of Applied Arts and Sciences	Los Angeles
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Sacramento State College	Sacramento
San Diego State College	San Diego
San Francisco State College	San Francisco
San Jose State College	San Jose

JUNE 1, 1955

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THE UNIVERSITY OF CALIFORNIA



Aerial photograph of the Humboldt State College Campus

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1955

JULY							AUGUST							SEPTEMBER							
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1956

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ACADEMIC CALENDAR—1955-56

FALL SEMESTER, 1955

AUGUST

- 5 Friday By this date students transferring from junior and four-year colleges should file applications for admission and official transcripts of record with the Registrar and Admissions Officer.
- 15 Monday By this date entering freshmen should file application for admission and official transcripts of record with the Registrar and Admissions Officer.

SEPTEMBER

- 5 Monday Faculty meetings as announced.
- 6 Tuesday All entering freshmen and other new students should report to the College Auditorium at 8:30 a.m. for announcements and testing.
- 6 Tuesday Program counselling and registration for returning students. College Elementary School opens.
- 7 Wednesday Continuation of testing program for new students. Program counselling and registration for returning students.
- 8 Thursday Program counselling for freshmen. Registration and payment of fees for returning students.
- 9 Friday Registration and payment of fees for new and returning students.
- 10 Saturday Registration of "limited" students (6 units or less) 9-12 a.m.
- 12 Monday Instruction begins. Late registration fee payable by all students registering on or after this date.

OCTOBER

- 3 Monday Registration for extension classes.
- 7 Friday Last date for program changes without penalty.
- 21 Friday Last date for registration in extension classes.

NOVEMBER

- 11 Friday On-campus observance of Veterans' Day. Midsemester scholarship warning notices issued.
- 24 Thursday Thanksgiving Recess.
- 25 Friday Thanksgiving Recess.

DECEMBER

- 17 Saturday Christmas Recess begins.

JANUARY, 1956

- 3 Tuesday Instruction resumes.
- 4 Wednesday Advance registration and program counselling for spring semester begins. All returning students should register.

13 Friday	Advance registration ends.
17 Tuesday	Final Examinations.
18 Wednesday	Final Examinations.
19 Thursday	Final Examinations.
20 Friday	Final Examinations.
21 Saturday	Final Examinations.

* SPRING SEMESTER, 1956

DECEMBER, 1955

23 Friday	By this date students transferring from junior and four-year colleges should file applications for admission and official transcripts of record with the Registrar and Admissions Officer.
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JANUARY, 1956

6 Friday	By this date entering freshmen should file applications for admission and official transcripts of record with the Registrar and Admissions Officer.
18 Wednesday	All entering freshmen and other new students should report to the College Auditorium at 8:30 a.m. for announcements and testing.
19 Thursday	Continuation of testing program for new students.
21 Saturday	Registration of "limited" students (6 units or less) 9-12 a.m.
23 Monday	Program counselling and registration for new students.
24 Tuesday	Program counselling and registration for new students.
25 Wednesday	Instruction begins. Late registration fee payable by all students registering on or after this date.

FEBRUARY

6 Monday	Registration for extension classes.
22 Wednesday	On-campus observance of Washington's Birthday.
24 Friday	Last day of program changes without penalty. Last date for registration in extension classes.

MARCH

24 Saturday	Easter Recess begins.
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APRIL

2 Monday	Instruction resumes.
6 Friday	Mid-semester scholarship warning notices issued.

MAY

25 Friday	Closing date for extension classes.
28 Monday	Final Examinations.
29 Tuesday	Final Examinations.
30 Wednesday	Memorial Day.
21 Thursday	Final Examinations.

JUNE

- | | |
|------------|---|
| 1 Friday | Final Examinations. College Elementary School closes. |
| 2 Saturday | Final Examinations. |
| 3 Sunday | Baccalaureate and Commencement. |

SUMMER SESSION

June 25-August 3

POST SESSION

August 5-August 31

ADMINISTRATIVE ANNOUNCEMENTS

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student many advantages and attractions. It is a five-year fully accredited college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wildlife management fisheries, dairying, forestry—lumbering, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II and the Korean War an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and opportunities at Humboldt State College. In it you will find the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with the following parts of this catalog as soon as you have decided to enter the College:

(1) *How you enter the College*

Requirements and procedure.....	See pages 16-21
Enrollment in classes, etc.....	See pages 30-34

(2) *Your Course of Study*

Curriculums and degrees	See pages 35- 43
Courses of Instruction	See pages 53-171

(3) *College Rules and Regulations*

Academic regulations	See pages 30- 34
Curriculums and degrees	See pages 35- 43

(4) *Your Expenses*

Fees and expenses	See pages 22- 23
Living accommodations	See pages 24- 26
Scholarships and loans	See pages 44- 50

If you have questions, please feel free to communicate with the Registrar of the College or, if you can, visit us personally.

Meanwhile, we invite you most cordially to come to Humboldt and hope we can welcome you when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in Arcata on the north shore of Humboldt Bay in Northwestern California. Arcata is about 300 miles north of San Francisco on the beautiful Redwood Highway. It is served by the Northwestern Pacific Railroad, by Pacific Greyhound Lines, and by Southwest Airways. It is in the center of a thriving lumber industry, and dairying dominates the adjacent valley bottoms. The neighboring city of Eureka is the county seat of Humboldt County, and the commercial center for Northwestern California.

The climate, influenced by the ocean, avoids extremes of heat and cold. Winter months are wet, but the other months are cool and stimulating.

PHYSICAL EQUIPMENT

Campus and Buildings

The campus of Humboldt State College, consisting of approximately 75 acres, occupies a beautifully wooded hillside overlooking the city of Arcata, Humboldt Bay, and the Pacific Ocean. Across the bay to the south can be seen the city of Eureka. The formally landscaped portions of the campus have recently been planted with great sweeps of flowering shrubs, trees, and annuals. Azaleas, rhododendrons, tulips, roses, fuchsias, and chrysanthemums bloom, in their seasons, in a profusion that only a mild climate permits. Broad hillsides are covered with variegated ivy, hypericum, or cotoneaster. Various trees and shrubs give an ever-changing aspect to the scene. The college is fortunate in having on its campus three specimens of the *Meta-sequoia*—a species of redwood almost extinct—which were transplanted from the interior of China about 1946.

The main building and the new library crown the top of the hill. Clustered around the main building and the library are the new biological science building, the industrial arts building, the gymnasium, the college elementary school, the student center, and the dormitory, Nelson Hall. In addition to these permanent buildings, there are temporary structures housing the radio, agriculture, forestry, photography, and music departments. Redwood Hall is a temporary dormitory for men, constructed from a surplus army barracks building. Under construction is the new Wildlife Management building situated in a grove of campus redwoods. To the east of the campus a beautiful second growth of redwoods on a higher hillside forms a backdrop for the buildings. The stadium—Redwood Bowl—is carved out of a mountain gulch immediately back of the main building, and it, too, is ringed about with giant redwoods.

Library

The first wing of the Library, completed in 1953, houses approximately 45,000 volumes covering all major subject areas, including recreational reading. Approximately 500 periodicals come to the library regularly, and approximately 2,500 recordings and other audio-visual materials supplement the book collection. Works not available in the library may be secured through inter library loan service. The completeness of the library service, together with its spacious reading and study spaces, provides students with ample opportunity to achieve excellence in scholarship.

College Elementary School

The College Elementary School for two hundred twenty-five children occupies a prominent site on the campus. The curriculum extends from kindergarten through the eighth grade, affording easy opportunity for classroom observation and some practice teaching. The playground serves both to demonstrate and give experience in supervising children in a recreational situation. The library of children's books, together with the professional collection of the curriculum laboratory, completes a superior laboratory for the training of elementary teachers.

Plans for Future Development

Predictions indicate an enrollment at Humboldt State College of approximately 2,400 persons by 1963. In order to continue the educational offerings of high quality, plans have been developed to add area to the campus, and for the erection of several new buildings. These include a music, art, and home economics building, college swimming pool and men's gymnasium, administration building, auditorium, cafeteria, physical science building, health service unit, completion of the library, speech arts classroom building, and dormitories.

HISTORY

Humboldt State College is one of the 10 California State Colleges which have developed out of the old state normal schools. Its progress from a two-year normal school to a five-year liberal arts college is detailed in the following historical outline:

- June 16, 1913—Humboldt State Normal School was established by action of the Legislature. The first president was Nelson B. Van Matre; a local board of trustees was appointed by Governor Hiram Johnson.
- April 6, 1914—Instruction began in the Arcata Grammar School buildings.
- May 26, 1915—First commencement was held, with 15 students receiving diplomas.
- Jan. 1, 1916—College moved to temporary buildings on its permanent campus of 51 acres, donated by William A. Preston and the Union Water Company.
- 1917—Legislature appropriated \$245,000 for the construction of the Main Building.
- 1921—Name was changed to Humboldt State Teachers College and control was transferred to State Board of Education. Three- and four-year curriculums and granting of the bachelor of arts degree in education were authorized.
- 1922—Main Building was completed and occupied.
- 1924—Dr. Ralph W. Swetman became president.
- 1926—First bachelor of arts degree was conferred on May 7th.
- 1928—Humboldt State College Improvement Association was formed.
- 1930—Arthur S. Gist became president.
The gymnasium was completed.
Liberal arts curriculums were established in the fields of biological sciences, English, and social sciences.
- 1932—Tennis courts and parking area were constructed.
- 1933—The College Elementary School was completed.
- 1935—The name was changed to Humboldt State College and authorization given to grant the bachelor of arts degree in the liberal arts.
- 1937—Bachelor of education degree was authorized.
- 1940—Nelson Hall was completed, the only permanent dormitory on a state college campus.
- 1946—Redwood Bowl was completed, culminating a long cooperative enterprise between the State and Federal Governments.
- 1947—General secondary credential was authorized, making it necessary to offer a year of graduate work.
- 1949—The master of arts degree in education and the social sciences was approved. The bachelor of science degree was authorized for certain specialized curriculums.
- 1950—Jenkins Hall (Industrial Arts Building) was completed, and dedicated in April.
The first master of arts degrees were conferred on June 7th.
Dr. Cornelius H. Siemens became president on July 1st.
- 1951—College was accredited for five-year period by Western College Association and the State Board of Education.
New Advisory Board was appointed with Don O'Kane, chairman, and Edward Goodwin, vice chairman.
- 1953—Library, Biological Science and Corporation Buildings occupied.
Forestry-Lumbering and Dairying curriculums added to the two-year occupational training program.
- 1955—College was re-accredited by Western College Association and the State Department of Education.

ADMISSION TO THE COLLEGE

HIGH SCHOOL PREPARATION

Although Humboldt State College does not require the completion of specific subjects in high school as a prerequisite for admission, it is recognized that some courses may provide better preparation for college work than others. A broad, general education with exploratory courses in many fields should assist the student in the selection of his major curriculum. Background courses which are often prerequisite to advanced work and which should, if possible, be taken in high school, include the following: elementary algebra; plane geometry; and English, with particular emphasis upon composition and usage. Future teachers should take a variety of courses, including mathematics, science, foreign language, social science, and exploratory courses in fields of art, music, commerce, shop, or home economics to develop skills and interests. Engineering students should take at least three years of high school mathematics, chemistry, physics, and mechanical drawing. Prenursing students are advised to take chemistry, and premedical students should take as much foreign language as possible (preferably Latin and a modern language). Students interested in business administration or in wildlife management should include advanced algebra and trigonometry in their high school programs.

College students find the ability to type of immense practical value.

It should be emphasized that good habits of study and quality of work are of more importance than the specific pattern of courses chosen. Attention to the development of improved reading and spelling skill, enlargement of vocabulary, and mastery of the fundamentals of English usage will mean greater success not only in college, but also in later business or professional life.

HOW TO APPLY FOR ADMISSION

The following steps indicate the procedures to be followed by the student who desires to enroll in Humboldt State College:

1. Obtain the following blanks from the office of the Registrar, fill them out as directed, neatly and accurately, and return them to the Registrar:

- (a) Application for admission (see calendar for deadline dates).
- (b) Housing blank (if campus housing is desired).

2. Have high school transcript of record submitted to the Registrar by the principal of the high school last attended.

3. Have an original, official transcript of record submitted to the Registrar from *each* college or university attended since graduation from high school.

An applicant who has attended a junior college, four-year college, university, extension classes of college level, or any comparable institution since graduating from high school is governed by the regulations

regarding admission with advanced standing. Such college attendance may not be disregarded, even though no courses may have been completed.

All documents used for admission to the College become the property of Humboldt State College, and cannot be returned to the student.

GENERAL ADMISSION REQUIREMENTS

Admission standards at Humboldt State College are stated in the California Administrative Code, Title, 5, Education, which provides uniform admission regulations for all California state colleges.

Admission of High School Graduates

The code provides as follows:

"925. *High School Graduates.* For admission to a state college, a high school graduate, or other applicant who is judged by the appropriate college authorities to possess equivalent preparation, must, as a minimum, meet one of the following:

"a. Have completed the equivalent of seventy semester periods (7 Carnegie units) of course work, in subjects other than physical education and military science, with grades of A or B on a five-point scale during the last three years in high school.

"b. Have completed the equivalent of fifty semester periods (5 Carnegie units) of course work, in subjects other than physical education and military science, with grades of A or B on a five-point scale during the last three years in high school and attained the twentieth percentile on the national norm of a standard college aptitude test."

For these students, arrangements to take the test should be made through the Office of the Dean of Students.

"An applicant who fails to meet these standards may be admitted, if in the judgment of the appropriate college authorities, he gives promise of being able to succeed in college."

Admission to a state college shall be limited to the number of students for whom facilities and competent instructors are available to provide opportunity for an adequate college education. The Director of Education after consultation with the president of a state college shall determine the number of students for whom there are available facilities and competent instructors at the college.

Admission to Curriculums of Less Than Four Years in Length

Humboldt State College is authorized by the State Board of Education to offer curriculums that require less than four years to complete. These curriculums are described on pages 53 to 58 of this catalog. The code states the admission requirements for these as follows:

"927. *Admission to Curriculums of Less Than Four Years in Length.* Colleges authorized to maintain curriculums of less than four years in length may admit to such curriculums, students who meet California junior college entrance requirements."

The California Education Code stipulates the requirements for junior colleges as follows:

"8821. The principal of any two-year junior college shall admit to the junior college any high school graduate and any other person over 18 years of age who in his judgment is capable of profiting from the instruction offered."

Admission of Adults to Special Status

The code provides as follows:

"926. *Adult Special Students.* An applicant who has attained the age of 21 years and is not a high school graduate may be admitted to the state college as an adult special student provided that he demonstrates to the proper college authorities ability to profit from college work. If such a student completes with a grade point average of 1.0 (grade of C on a five-point scale) or better a program of 24 semester or 36 quarter units of residence work in basic courses leading to a degree, he shall not be required to remove deficiencies."

ADMISSION WITH ADVANCED STANDING

The code provides as follows:

"928. *Students Who Transfer From Accredited Degree Granting Colleges and Universities.* An applicant who has earned credit in accredited degree granting colleges and universities may be admitted to a state college if he meets standards as follows:

"(a) He must have a grade-point average of 1.0 (grade of C on a five-point scale) or better on the total program attempted, or

"(b) He may receive special consideration if he attains the twentieth percentile on the national norm of a standard college aptitude test provided that he must have been in good standing at the last college institution attended, and his previous record must be such that it would not disqualify him in the college to which he seeks admission.

"(c) A student who does not meet the above requirements may be admitted on probation, if in the opinion of the proper college authorities he can succeed in college."

"929. *Students Who Transfer From Unaccredited Colleges and Universities.* An applicant who has attended a nonaccredited college or university may be admitted to a state college if he meets the standards listed above for transfers from degree granting colleges and universities, but credit earned in nonaccredited colleges and universities may be counted toward graduation requirements only after he has earned 24 semester or 36 quarter units with at least a C average."

"930. *Students Who Transfer From Junior Colleges.* An applicant who has credit in a junior college may be admitted to a state college if he meets the standard previously listed in this article, except that in case the applicant was ineligible for admission to a state college on the basis of his high school record he must, as a condition to admission to a state college, have completed 24 or more

semester units of college work with a grade-point average of 1.0 (grade of C on a five-point scale) or better in the total program attempted.

"Not more than 64 semester units may be allowed for credit earned in a junior college. No upper division credit may be allowed for courses taken in a junior college. No credit may be allowed for professional courses in education taken in a junior college."

"931. *Other Applicants for Admission With Advanced Standing.* An applicant who fails to meet the standards listed above in this article may be considered by the appropriate state college authorities for admission to the college on probation when the facts in the case seem to warrant such action."

ADMISSION TO GRADUATE STUDY

The code provides as follows:

"932. *Admission With Graduate Standing.* A student may be admitted to a state college with graduate standing upon the basis of standards as follows:

"(a) The applicant must have completed a four-year college course with an acceptable baccalaureate degree from an accredited institution or must have completed equivalent training as determined by the appropriate state college authorities, and

"(b) He must give evidence of the possession of such other qualifications as the receiving college may prescribe, such qualifications to include appropriate scholastic, professional, and personal standing, and the passing of any required examination."

SPECIAL COUNSELING FOR NEW STUDENTS

Applicants for admission whose high school record does not qualify them for clear admission may apply for admission on a provisional basis. The Office of the Dean of Students gives special counseling in planning programs of studies which enable these students to demonstrate ability to do college work.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Western College Association and the State Department of Education. Accreditation by the Western College Association assures acceptance of credits by institutions that are members of other similar accrediting associations in the United States.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

Many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

COLLEGE APTITUDE TEST

Unless excused in writing by the Associate Dean of Students, all new students are required to take the college aptitude test before they are permitted to consult advisers concerning program planning. If similar tests have been taken in other collegiate institutions, a transferring student should request that a report of the results be forwarded to the Admissions Office at Humboldt State College. The aptitude test is given more than once each year, and prospective students should make arrangements to take the test at the earliest convenient date. See the Academic Calendar (page 8) for the schedule of dates.

REMEDIAL PROGRAM

The College is prepared to offer work in certain fields that is remedial in character, when the entrance examinations indicate that a student's chances for success in college would be enhanced by remedial study in given areas. Not more than six units earned in such courses may be applied toward the bachelor's degree. All remedial courses are designated by the letter "X."

English X

Students who enroll as freshmen at Humboldt State College are required to take the English X examination. Those who pass this test with a satisfactory score enroll in English 1A, First-year Reading and Composition, during the first semester in college. Those who fail the examination are required to take English X, English Composition. Although credit (three units) is given for English X, these units may not apply toward the units in English required for a bachelor's degree. The English X examination is a thorough test in English usage and composition.

All entering students are required to take this examination except (a) those who have passed the University of California Subject A examination; or (b) those who have passed a course in composition in a college or university which is at least the equivalent of English X.

Psychology X

A student who scores below the twentieth percentile on the reading test will be required to enroll in the course in remedial reading, Psychology X, Reading Study Service. This course carries one unit of credit, and may be repeated once for a total of two units, upon the recommendation of the instructor.

Speech X

Students who need remedial work in speech are urged to register for Speech X, Speech Clinic. This work is given for one-half or one semester unit of credit, depending upon the nature of the difficulty and the amount of time spent in study. A maximum of two units of credit may be earned in this course.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. (See page 8.) A faculty adviser is assigned to each student according to the curriculum he selects. After a

program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar four weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$2 is collected for late registration.

INFORMATION ABOUT DEFERMENTS AND SELECTIVE SERVICE

The Dean of Students at the College keeps himself constantly informed about the deferment policies of the Selective Service. In the past students have been granted a II-S classification so long as they continued to make normal progress in their college programs. The various branches of the armed services have likewise permitted students participating in reserve and national guard programs to continue their college studies.

Any applicant for admission to the College may receive a summary of the current policies relative either to deferment or the reserve programs by writing a request outlining his particular problem to the Dean of Students, Humboldt State College, Arcata, California.

FEES AND EXPENSES

FEES

Regular State Fees

Materials and service fee: 6½ or more units	\$20.00
Materials and service fee: 4 to 6 units	15.00
Materials and service fee: less than 4 units	9.00

*Student Body Fees **

Membership—first semester \$11, second semester \$9. (The fees entitle the student to membership in the Associated Students, services of the Physical Education Department, health and hospitalization services and *Semper-virens*.)

Occasional State Fees

Extension fee—per unit	7.50
†Late Registration fee	2.00
State credential fee—paid directly to Registrar's Office—each credential	4.00
Change of program fee after final filing date	1.00
Miscellaneous penalty fee (failure to meet administratively required appointment or deadline)	2.00
Studio lessons \$1 to \$4 per lesson, payable at time of registration. Certain courses in industrial arts, art and science require the student to furnish certain materials for projects which become personal property upon completion.	
Diploma fee at graduation:	
With leather portfolio	2.75
Without leather portfolio	1.00
Transcripts—after first copy—each	1.00

Summer Session Fees

Tuition fee—per unit	8.50
*Summer session lecture and recreation fee	1.00
‡Late registration fee	2.00

Auditors

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than two weeks following the day of the term that instruction begins. In case of illness, a duly authorized representative of the student may file the application for him. When a

* Not state fees.

† Late registration fee is due and payable by any student who registers on or after the date for beginning of instruction in any regular semester.

‡ Late registration fee is due and payable by any student who registers after the first three days of the session. Registration day is counted as the first day of the session.

refund is granted, a charge of \$2 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Business Manager for further information concerning the regulations which govern such procedure.

Student Body Fees

These fees are not returned if a student has participated in any student body activity.

ESTIMATED EXPENSES FOR REGULAR STUDENT

<i>Item</i>	<i>Total for semester</i>
Materials and service fee-----	\$20.00
Student organization expenses (Club dues, yearbook, hospitalization, physical education, alumni fees, etc.) *-----	25.00
Books, papers, and supplies *-----	35.00
Board and room *-----	300.00
Miscellaneous (entertainment, laundry, cleaning, etc.) *-----	100.00
Total *-----	<u>\$480.00</u>
Bus fare: Eureka-Arcata, \$6.50 per month.	

* The amount listed is an estimated average.

STUDENT LIFE

LIVING ACCOMMODATIONS

Living accommodations for students in residence at the college are provided by the college dormitories. Rental rates are set by the State Board of Education. The head residents, under the direction of the Office of Dean of Students, administer the internal affairs of the dormitories, employing student government insofar as it is feasible to do so.

The West Wing of Nelson Hall houses women students, the East Wing of Nelson Hall, Redwood Hall, Redwood Hall Annex, and Nelson Hall Annex house men students.

Dormitories furnish and launder:

Bed linen
Towels
Blankets
Pillows
Bedspread

The student may supply:

Curtains
Bedspread
Rug
Study lamp

Thirty housing units, located in Humboldt Village, at the edge of the campus are available for married students. The rates vary from \$35 to \$40 per month, including utilities. Stoves and a limited amount of essential furniture are supplied by the college.

All lower division women, not commuting daily from their homes, are required to live in Nelson Hall unless approval for off-campus housing is secured from the Office of Dean of Students.

RESERVATIONS AND DEPOSITS

Applications either for a room in a dormitory or for a house in Humboldt Village must be made in advance to the Business Manager of Humboldt State College, Arcata, California, on forms provided by the College. Each application for a dormitory room must be accompanied by a deposit of \$12.00; each application for a unit in Humboldt Village must be accompanied by a deposit of \$20.00. *Actual room assignments are not made until the applicant has been admitted to the College as a student by the Registrar.* (See page 16 for instructions on filing Application for Admission.)

If an applicant is denied admission to the College, the deposit is immediately refunded. If the applicant is approved for admission to the College, but decides not to enroll, he must apply before August 24, 1955, to the Business Manager of the College for a full refund of his deposit. After that date, a deduction equivalent to fifteen days' rent will be made from all refunds. If an applicant enrolls in the College, the deposit is refunded at the time he leaves, provided that the room or house occupied is in good condition.

Students who live in dormitory rooms are expected to remain in residence through the semester. If exceptional circumstances make moving necessary, formal application for a refund with approval from the Office of the Dean of Students must be made at least 15 days in advance. If an application is made with less than 15 days' notice, the refund will be reduced by the amount of rent necessary to give the 15-day notice.

Each woman student who is not personally known to members of the faculty is requested to furnish the Dean of Students with two letters recommending the applicant's character and integrity. These letters may be from teachers or friends who have a personal acquaintance with the applicant.

BOARD

Students who live in Nelson Hall or Redwood Hall are required to purchase meal tickets for board in the College Cafeteria. Students who room off the campus and members of the faculty may also purchase meal tickets. The cafeteria offers an *a la carte* menu for lunch for those without meal tickets. Guests of students, or students without meal tickets may eat in the cafeteria at established transient rates.

No allowance is made for occasional meals missed, but a \$1.25 per day credit or refund will be made when all meals are missed for three or more consecutive school days, when the reasons for missing the meals are approved by the Dean of Students. Ordinarily no credit or refunds are made to students who regularly miss one meal per day. Upon verification of employment which results in the student's regularly missing a meal each day, box lunches will be prepared.

RATES AND PAYMENTS

The rates for rooms are fixed by the State Board of Education as follows:

Nelson Hall	_____	\$75 per semester
Redwood Hall	_____	\$65 per semester

Charges for room and board for each semester are due and payable in advance. It has been found that it is an advantage to most students to pay for the entire semester in advance. Anyone moving from the dormitory or withdrawing from the college must secure a refund in accord with the rules and regulations.

For the student who finds it necessary to make board and room payments in installments, the following schedule of payments has been established. In order to make payments by the month, arrangements must be made in the Business Office at the time of registration.

Schedule of Monthly Payments

<i>To be paid prior to</i>	<i>Five-day* meal ticket</i>	<i>Seven-day meal ticket</i>	<i>Nelson Hall</i>	<i>Redwood Hall</i>
September 12	\$82.50	\$100.00	\$25.50	\$21.75
November 1	44.50†	52.00	17.00	14.50
December 1	27.00‡	32.00‡	17.00	14.50
January 1	48.00	58.00	17.00	14.50
February 1	48.00	58.00	25.50	21.75
March 1	38.50‡	46.00‡	17.00	14.50
April 1	48.00	58.00	17.00	14.50
May 1	55.50	68.00	17.00	14.50
Totals	\$392.00	\$472.00	\$153.00	\$130.50
1st Semester	\$190.50	\$228.00	\$75.00	\$65.00
2d Semester	\$201.50	\$244.00	\$75.00	\$65.00

* The regulation credit of \$1.25 from the regular seven-day meal ticket has been given students purchasing this meal ticket.

† Does not include meals for Thanksgiving weekend of four days. Meals will be served *a la carte*, if enough students desire.

‡ Cafeteria will be closed Christmas and Easter vacations.

Ordinarily students who live in the dormitories are expected to purchase seven-day meal tickets. Students may be granted five-day meal tickets for valid reasons appropriately verified by statements from parents or employers.

DORMITORY SCHEDULE

August 24, 1955—Last day to cancel room reservations and secure refund of deposit.

September 4—Open for freshmen and new students.

September 6—Open for upper class students.

December 16—Close for Christmas vacation.

January 2, 1956 (noon)—Reopen.

March 23—Close for Easter vacation.

April 1 (noon)—Reopen.

June 3 (noon)—Close.

Please plan to arrive on or after the dates specified above. Admittance cannot be granted prior to the time indicated.

The cafeteria is closed for Christmas and Easter vacations.

STUDENT ORGANIZATIONS

Participation in student activities is encouraged in the belief that such experiences may profitably supplement the student's academic program. A few college activities carry college credit. The Associated Student Body (ASB) is the official organization of the student body. It provides opportunity for democratic self-government; encourages and regulates all extracurricular activities; and is concerned with the intellectual, moral, and social welfare of all students, in conformity with the aims and purposes of the College and with democratic ideals.

All students are expected to become members of the Associated Student Body by purchasing a Student Body Card. This membership includes many financial, social and cultural advantages:

Excellent health service

Hospitalization privileges

Admission to most athletic, dramatic,
and musical events

Admission to all ASB sponsored
social activities

Copies of college newspaper,

The Lumberjack

Sempervirens, the yearbook

Privilege of voting in student elections

Club and organization membership

Qualification for candidacy if
nominated to office

Participation in intercollegiate athletics

The membership fee for the Associated Student Body is \$11 for the first semester and \$9 for the second semester, payable at registration each semester.

The Associated Student Body operates the student cooperative store which includes a snack bar and a bookstore.

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of

organizations which are authorized by and co-ordinated through the Associated Students:

A Cappella Choir
 Alpha Psi Omega (drama)
 Alumni Association
 Amateur Radio
 Associated Women Students
 Block H
 Board of Finance
 Chi Sigma Epsilon (scholastic)
 Circle K
 College Y
 Conservation Unlimited
 California Student Teachers
 Association
 Drama Club
 Engineering Club
 Foreign Students Club
 Home Economics Club

H. S. C. Ski Club
 Intercollegiate Knights
 Inter-Club Council
 Lumberjack Band
 Mu Epsilon Psi (music)
 Newman Club
 Physical Education Club
 Rally Committee
 Spokes
 Tri Sigma (prenursing)
 Veterans' Club
 Women's Athletic Association
 Class Organizations:
 Freshman
 Sophomore
 Junior
 Senior

THE ALUMNI ASSOCIATION

The Humboldt State College Alumni Association is active in the support of all college activities, and sponsors several social events annually for the benefit of the students. Graduates and former students who have completed at least 30 units of work are eligible to membership in the association which holds annual or semiannual meetings and publishes a periodical newsletter called *The Alumnus*. Persons eligible for membership may become life members in the Association by the payment of dues of \$10. All dues for life memberships are used to build up the Alumni Association Student Loan Fund.

SOCIAL LIFE

The social program of Humboldt State College is planned to contribute to the enjoyment of college life. The Associated Student Body traditionally sponsors a Christmas formal, the Sno-Ball; the Homecoming Dance; and an all-day picnic. These Student Body-sponsored social events are free to members. The individual clubs sponsor many social events to which the Student Body is invited; the dormitories have a well-integrated on-campus social program; and the Student Body sponsors frequent coffee hours throughout the year. The college social program is college-centered; the dormitory facilities and the gymnasium are used frequently for social events. Faculty members participate in the extracurricular and social program, either as advisers to clubs and organizations, advisers to college social affairs, or as co-ordinators of club and social affairs.

ATHLETICS AND RECREATION

A well-rounded program of activities in the field of athletics and recreation includes regularly organized classes in a variety of sports; scheduled intramural competition for both men and women; utilization of regional resources for individual or group recreation, such as fishing, skiing, swimming, and hiking in the redwoods or at the beach; and participation in intercollegiate football, basketball, baseball, track, swimming, and other sports. The College is a member of the Far Western

Conference, and the regulations of the conference govern athletic eligibility.

The Division of Health and Physical Education requires all men and women participating in intercollegiate or intramural sports to pass a health examination each season.

MUSIC

In addition to the musical activities offered as part of the academic program of the College (including the college chorus, little symphony orchestra, band, and a cappella choir), the music faculty and students offer a rich musical experience to students through listening hours, sponsorship of a series of concerts in which noteworthy musicians of the west are presented under the auspices of Mu Epsilon Psi, and through cooperation with the Community Concert series, tickets for which are available to students at reduced rates.

DRAMATICS, FORENSICS, AND RADIO-TELEVISION

Opportunity is open to interested students for participation in dramatic productions varying from Shakespeare to modern one-act plays. The drama festival for the high school students of northern California, and the inter-change of plays with Chico State College, are annual events of considerable interest. The Dramatic Workshop provides experience in scene design, stagecraft, lighting, costume, and makeup.

Forensics at Humboldt State covers debate, oratory, student senate, discussion, interpretation, etc. The College is a member of the Northern California Forensic Association and periodically attends forensic meets in the San Francisco Bay area, and in nearby states.

Students have the opportunity to present radio and television programs over the campus station, KHSC, and over the commercial stations in Eureka, KIEM, KHUM, and KIEM-TV.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Dean of Students.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering standardized tests under the direction of the Testing Bureau. All students upon entrance

take the Ohio Psychological Examination (i.e., the college aptitude test), the Cooperative English Test, the Kuder Vocational Preference Test, and the Mental Health Analysis.

The facilities of the office of the Dean of Students are available during the college year for counseling and guidance assistance, particularly with freshmen and other new students.

An excellent opportunity for group guidance and social living is provided through the college dormitories.

HEALTH SERVICE

The College Health Service is maintained to safeguard the health of the students, to make required physical examinations, and to inspect the sanitary facilities of the campus. A registered nurse is on duty at the Health Cottage from 9 a.m. to 3:30 p.m. daily. Sick call is taken by the College Physician. Both the nurse and the physician are available for emergencies.

VETERANS' SERVICE

For veterans, either of World War II or of the Korean War, special counseling and guidance services are available. Several members of the faculty have served in the armed forces and all are interested in the returned veterans and their problems.

When the need for specialized guidance and counseling is apparent, such services may be scheduled with the Veterans Administration Advice and Guidance Section in San Francisco upon the signed application of the veteran. This applies to veterans who are enrolled under Public Law 346, 550, 894, or 16. A Veterans Administration Training Officer makes frequent, periodic visits to the College. Members of the counseling staff of the College are also available to assist any veteran in determining his vocational goal or in solving his personal problems.

A faculty committee has been appointed to keep in touch with developments in regard to military training and programs offered by the various branches of the armed forces, for the information and guidance of students anticipating military service.

Special assistance is available to the dependents of disabled or deceased veterans. Complete information may be secured by addressing an inquiry to the Registrar, Humboldt State College.

VOCATIONAL REHABILITATION

Special assistance, including counseling, payment of fees, and provisions for free textbooks, is available through the State Bureau of Vocational Rehabilitation to students who have employment handicap resulting from any physical disability. Inquire of the Associate Dean of Students (Guidance), Humboldt State College, for complete information.

ACADEMIC REGULATIONS

A semester hour (or semester unit) is defined as one hour a week of lecture or class instruction for one semester, or its equivalent of laboratory, field work, or other types of instruction. In general, it is expected that the average student will spend two hours in preparation for one hour of lecture or recitation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see pages 37-38). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	Less than 30 units
Sophomores	30 to 59½ units
Juniors	60 to 89½ units
Seniors	90 or more units

During a given semester students registered for more than six units are classified as *regular* students. Students registered for six units or less are known as *limited* students.

MARKING SYSTEM

Grades

A five-grade marking system is used. The grades employed are defined as follows:

A	Excellent
B	Above Average
C	Average
D	Barely Passing
F	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

"Incomplete" will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the "incomplete" automatically becomes a failure.*

Grade Points

Each of the above grades carries grade points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No grade points are given for an "incomplete" until the final grade is given. Neither units nor grade points are given for a course from which a student withdraws. Hence, marks of "incomplete" or "W" have no effect upon the scholarship index.

Scholarship Index

The scholarship index is a device for rating a student's scholarship average. It is derived by dividing the total number of grade points earned by the total number of registered units. In computing the index, units are not included for courses that carry no grade points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and grade points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "scholarship index" refers to the cumulative rather than the semester index.

PROGRAM LOAD REGULATIONS**Normal Program**

The normal program for which a student may enroll depends upon a number of factors. In the case of first semester freshmen the load is, in certain conditions determined by the results of entrance tests. In general the normal load is listed below.

First semester freshmen-----	12-15½ units
A. B. degree-----	15½ units
B. S. degree-----	16 units
Engineers-----	16 units
All other undergraduate students-----	15½ units
Probation students (minimum load)-----	12 units*

Maximum Loads

Maximum load without petition-----	16½ units
† For students having cumulative scholarship index of 1.5-----	17 units
† For students having cumulative scholarship index of 2.0-----	18 units
Graduate students-----	16 units
Graduate students carrying three or more 200 courses-----	12-14 units
‡ Students employed 15 or more hours per week-----	12 units

* If conditions warrant, permission for a lighter load may be secured in the Office of the Dean of Students.

† Petition and Health Office approval required.

‡ Permission for a heavier load may be granted by the Dean of Students.

Miscellaneous Load Regulations

Veterans and students under Selective Service are required to carry programs as follows. (Refresher and audited courses excluded)

P.L. 16 or 894: -- A semester program that complies with requirements for a given curriculum as approved by the Veterans Administration for an individual veteran.

P.L. 346: ----- 12 semester units (for full subsistence)

P.L. 550: ----- 14 semester units (for full subsistence)

Selective Service: 15 semester units each semester

To be eligible to participate in intercollegiate athletics during a given semester, a student must comply with the following requirements:

(a) Passing grades in 10 semester units must have been earned during the last preceding semester in which he was enrolled; and

(b) Must be enrolled in 11 semester units at the time of participation in athletics.

First-semester freshmen are eligible for competition if they are enrolled in 11 units of college work.

According to the definition of a semester unit as given above, a program of 15 semester units means 45 hours of class and home work each week.

Petitions for overloads should be filed prior to the deadline date for program changes.

In order to secure credit for their work students must have their programs signed by the faculty adviser.

Work taken in excess of the authorized load may not be applied toward the minimum units required for the bachelor's degree.

CLASS ENROLLMENT AND CHANGES OF PROGRAM

Enrollment in a given class involves two steps: (a) recording the course on the official study list in the office of the Registrar; (b) filing a course card with the instructor.

Students who make any change in their programs are urged to follow carefully the prescribed procedure.

Necessary program changes may be made during the first four weeks of the semester through the Registrar's office with the consent of the student's adviser. After the first week of the semester, written permission to add a class must be obtained from the instructor, who has the right to refuse late admission to any class if he feels that it would be too difficult for the student to make up the work.

After the fourth week, permission to *add* courses will be granted only in exceptional cases, and will require approval of the student's adviser and instructor, and of the Academic Regulations Committee.

After the fourth week, permission to *drop* courses will require approval of the Academic Regulations Committee. Petitions accompanied by supporting evidence will be considered by the committee under regulations adopted by the faculty.

Students who make any change in their programs are urged to follow carefully the prescribed procedure.

No student may be admitted to a class unless the instructor has received his course card. The only exception permitted is enrollment for no credit in those student activities for which credit is normally given.

This includes interscholastic athletics, chorus, choir, orchestra, band, radio, dramatic workshop, and evening dance classes. Students may participate in these activities without credit if they wish, but if credit is desired, registration must take place within the prescribed period for program changes. No exception to this rule is permitted.

ATTENDANCE

The college administration believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own regulations regarding attendance requirements.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

AUDITORS

Audited classes must be counted as part of the student's regular load. A student who completes a course as an auditor may not subsequently petition for credit.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work. The date of withdrawal is construed to be the date of last attendance in class. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may receive "incomplete" grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as "failures."

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Midsemester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the student's adviser, instructor, or the Dean of Students.

CREDIT BY EXTENSION OR CORRESPONDENCE

Except as provided hereinafter, students regularly enrolled may be admitted to extension classes upon the approval of the student's adviser. In such cases the combined program shall be subject to the established load limitations for regular students. Faculty members may not offer extension courses to regularly enrolled students on an extension fee basis.

The maximum credit toward the minimum degree and credential requirements is set at 24 semester units of either extension or correspondence work; not more than 12 of the units may be transferred from another institution.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Neither extension nor correspondence credits shall be counted toward the residence requirements, unless an exception is made for a specific class by the institution.

PROBATION AND DISQUALIFICATION

Warning

A student shall be placed on warning who has a grade point shortage on the total units attempted of *five and one-half* or less.

Probation

1. Any student who has a shortage of *six* or more grade points on the total units attempted shall be placed on probation.

2. Any student on warning who has failed to achieve a 1.0 index after two semesters shall be placed on probation.

Disqualification

1. As long as a student is on probation he must maintain an average of 1.0 in a program of 12 or more units for each semester. Failure to do so will result in disqualification. Under special circumstances, the student may carry a lighter load if his program is approved by the Associate Dean of Students in charge of Guidance.

2. Students who fail to achieve a "D" average in a given semester shall be disqualified.

3. Disqualified students may petition for reinstatement through the Committee on Admissions and Reinstatement. In most cases, such reinstatement will be granted only after the lapse of one semester.

4. Any student whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

CURRICULUMS AND DEGREES

GENERAL STATEMENT

INSTRUCTIONAL DIVISIONS

The courses of instruction offered at Humboldt State College are administered through seven instructional divisions under the general supervision of the Dean of Instruction. These instructional divisions, together with the fields of study grouped under each, follow.

1. The Division of Business
 - a. Business Administration
 - b. Business Education
 - c. Secretarial Science
2. The Division of Education and Psychology
 - a. Elementary teacher education
 - b. Secondary teacher education
 - c. Administration and supervision
 - d. Psychology
3. The Division of Fine and Applied Arts
 - a. Art
 - b. Home economics
 - c. Industrial arts
 - d. Music
 - e. Speech, drama, radio and television
4. The Division of Health and Physical Education
 - a. Physical education for men and women
 - b. Health and hygiene
 - c. Recreation
5. The Division of Language and Literature
 - a. English language and literature
 - b. Foreign languages and literature
 - c. Journalism
6. The Division of Natural Sciences
 - a. Biological sciences
 - Anthropology, bacteriology, biology, botany, physiology and anatomy
 - b. Fisheries
 - c. Game management
 - d. Physical sciences
 - Chemistry, geology, physics
 - e. Mathematics
 - f. Engineering
 - g. Agriculture—Dairying
 - h. Forestry—Lumbering
7. The Division of Social Sciences
 - a. Economics
 - b. Geography
 - c. History
 - d. Philosophy
 - e. Political science
 - f. Sociology
 - g. Social service

CURRICULUMS

The work offered by the College falls into two main categories: degree curriculums and nondegree curriculums. The degree curriculums are further classified into (a) curriculums leading to the A.B. or M.A. degrees and organized for the training of teachers in the public schools; and (b) curriculums leading to the A.B. or B.S. degrees preparing students for work in fields other than teaching.

The nondegree curriculums, which are one- or two-year lower-division programs, are of two types: (a) those which are terminal, vocational in character; (b) those which are followed by students who wish to complete their preprofessional work at this College, looking forward to completing their professional training at another institution.

I. Degree Curriculums**A. Teacher education curriculums****1. Graduate work leading to the M.A. degree with majors in:**

Elementary education	Administration and supervision
Secondary curriculum or guidance	Social sciences

2. Graduate curriculums leading to the general secondary credential with majors in:

Art	Mathematics
Business education	Music
Conservation education	Physical education
English	Physical and general sciences
Language arts	Social sciences
Life and general sciences	Speech

3. Curriculums leading to the administration and supervision credential as follows:

Elementary and Secondary school administration credential
 Elementary and Secondary school supervision credential
 Special supervision credential

4. Curriculums leading to the A.B. degree with the following credentials:

General elementary credential

General junior high school credential with majors in:

Art	Industrial arts
Biological sciences	Mathematics
Conservation education	Music
English	Physical education
Health and hygiene	Social sciences
Home economics	Speech and dramatics

Kindergarten-primary credential

Special secondary credentials in:

Art	Music
Business education	Physical education
Home economics	Speech correction

Combinations of the foregoing credentials may be arranged.

B. Curriculums in fields other than teaching**1. Occupational curriculums leading to the A.B. or B.S. degrees with majors in:**

Business administration	Secretarial science
Fisheries	Social service
Game management	Speech-radio-television

2. Liberal arts curriculums leading to the A.B. degree with majors in:

Allied arts	History
Art	Home economics
Biological sciences	Music
Botany	Political science
Conservation	Premedical sciences
Economics	Social sciences
English	Sociology
Group major	Zoology

Some of the above-listed liberal arts curriculums provide a suitable background for professional training in such fields as library science, the ministry, law, journalism, youth leadership, physical therapy, and occupational therapy. Students intending to major in one of these fields should consult their adviser with a view of selecting the appropriate program of study.

II. Nondegree Curriculums

A. Two-year curriculums

Agriculture—Dairying	Photography
Drafting	Recreational leadership
Forestry—Lumbering	Secretarial training
General curriculum	

B. Preprofessional curriculums preparatory for transfer to other institutions:

Agriculture	Medicine
Architecture	Mortuary science
Dentistry	Nursing
Engineering	Occupational therapy
Forestry	Optometry
Laboratory techniques	Pharmacy
Law	Physiotherapy
Letters and science	Veterinary science
Library science	

Other preprofessional curriculums may be arranged to meet special needs.

Students who are enrolled in preprofessional curriculums and expect to transfer to other institutions should acquaint themselves with the particular graduation requirements of the institution to which they expect to transfer. Further, they should ascertain which of the courses offered at this College will be accepted in preparation for the chosen field of study.

Since most of the students who take their lower-division preparatory work at this College transfer to the University of California at Berkeley, lower division curriculums in most instances are devised to meet the requirements of the University of California.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower-division requirements for the specific curriculums involved.

EXPLANATION OF COURSE NUMBERS

The courses offered at Humboldt State College are designated by number as well as by title. The significance of these numbers is as follows:

- 1- 99 designate *lower-division courses*. They are designed for freshmen and sophomores, but juniors and seniors may enroll in them. They *do not give* upper-division work in any department.

100-199 designate *upper-division courses*. They are open only to students who have attained upper-division standing, and who have completed the lower-division work deemed preparatory by the instructional division concerned. Freshmen or sophomores are admitted to these courses only under special circumstances, and then only with the consent of the instructor.

200-299 designate *graduate courses*. They are open only to students who have been admitted to the graduate division.

300-399 designate courses in *directed teaching*. They are open only to upper division or graduate students.

X designates *remedial courses* in the various divisions. They are open to students who are found to need special assistance in the area involved.

Letters designate *courses usually taught in high school*, but which are offered at the College, under special conditions, to students who are found to need these courses.

"Year" after a course title indicates that the particular course runs through two semesters.

The lists of courses offered by each division comprise the total course offerings of the College. Not all the courses included are given each semester, nor even each year. The student should consult the schedule of classes which is published each semester for detailed information concerning current offerings.

REQUIREMENTS FOR DEGREES

THE MASTER OF ARTS DEGREE

The College is authorized to confer the master of arts degree upon qualified candidates who meet the specified requirements and who hold appropriate California teaching credentials or who meet other requirements specified in the Rules and Regulations of the State Board of Education. All programs are administered by the Graduate Study Committee of the College and further information may be obtained from the chairman of the committee.

General Requirements

1. A minimum of 30 semester units of upper division and graduate courses must be earned beyond the bachelor's degree.
2. At least 24 units of this credit must be earned in residence at Humboldt State College.
3. Not more than six units of credit may be earned in extension, or in directed teaching, and/or as credit transferred from another accredited graduate school.
4. At least 10 semester units of strictly graduate courses must be included in the program.
5. At least two approved one-semester courses outside the field of Education must be included in the program.
6. A grade point average of B must be maintained in all work taken in the graduate program. No course with a grade below C may be applied.
7. An acceptable thesis or teaching project will be required, although at the discretion of the Graduate Study Committee, satisfactory performance on a final comprehensive examination may be substituted for this requirement.
8. All work for the degree must have been earned in the seven-year period immediately preceding the completion of the requirements.
9. Admission to candidacy for the degree shall be at the discretion of the Graduate Study Committee, and shall be achieved at least four months before completion of the requirements.

Prerequisites to admission to candidacy include a minimum grade index of 1.5 in the candidate's undergraduate major and in the upper division, together with certain tests of aptitude for graduate work which may be administered.

Course Requirements

The following outlines of course requirements have been established as a basis for evaluating qualifications of candidates for the degree. The record of each candidate will be carefully considered in the light of these requirements, and such modifications in individual programs as are recommended by the student's adviser may be permitted with the approval of the Graduate Study Committee. All programs require a minimum of 30 units beyond the bachelor's degree.

I. Elementary Education

1. *Prerequisites: evidence of satisfactory preparation for the work proposed.
2. Required for all candidates

Educ. 205. History and Philosophy of Education.....	2 units
Educ. 230. Seminar in Elementary Education.....	2 units
Educ. 233. Advanced Elementary Curriculum.....	2 units
Educ. 265. Guidance in Education.....	2 units
Educ. 290. Thesis or acceptable project.....	3 units
Educ. 298. Master's Degree Seminar (Research Procedure).....	2 units
Educ. 299. Special Problems in Education.....	2-4 units
Directed electives other than education.....	4-6 units
Directed electives in Elementary Education.....	6-8 units

II. Secondary Education

1. *Prerequisites: evidence of satisfactory preparation for the work proposed.

Undergraduate Electives in Education.....	2 units
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2. Required for all candidates

Educ. 205. History and Philosophy of Education.....	2 units
Educ. 260. Evaluation in Education.....	2 units
Educ. 275. Seminar in Secondary Education.....	2 units
Educ. 298. Master's Degree Seminar.....	2 units
3. A Major Emphasis in either A or B as follows:
 - A. Curriculum and Methods of Instruction in Major Teaching Field

Psych. 212. Psychology of Adolescence.....	2 units
Educ. 290. Thesis or Teaching Project.....	3 units
Educ. 299. Special Problems or Field Work in Teaching Field....	2-4 units
Directed electives in major teaching field.....	3-6 units
Directed electives.....	7-11 units

 (Each candidate must have at least two courses other than Education.)
 - B. Pupil Personnel and Guidance

Psych. 212. Psychology of Adolescence.....	2 units
Educ. 265. Guidance in Education.....	2 units
Educ. 290. Thesis or Teaching Project.....	3 units
Educ. 299. Special Problems or Field Work in Guidance.....	2-4 units
Directed electives.....	12-13 units

 (Each candidate must have at least two courses in fields other than Education.)

III. Educational Administration and Supervision

1. *Prerequisite.

Appropriate teaching credential

Teaching experience (At least two years of successful teaching experience must be verified.)

* Courses offered to satisfy these prerequisites must total at least 12 semester units and this total must be completed before enrollment is permitted in strictly graduate courses in Education. These units cannot satisfy any portion of the unit requirement for the Master of Arts Degree in Education.

2. Required for all candidates

Educ. 233. Advanced Curriculum Construction.....	2 units
Educ. 260. Evaluation in Education.....	2 units
Educ. 265. Guidance in Education.....	2 units
Educ. 290. Thesis or approved project.....	3 units
Educ. 298. Master's Degree Seminar (Research Procedures)	2 units
Educ. 299. Special Problems in Administration or Supervision.....	2 units
Directed electives other than Education.....	4-6 units
3. Additional requirements to qualify for administration or supervision credential.
(See pages 77-78)
Appropriate modifications will be made in the program for students who already have an administration or supervision credential.

IV. Social Sciences

1. Prerequisite: evidence of satisfactory preparation for the work proposed.
2. Suggested Program:

Restricted Electives.....	9-12 units
To be chosen from the following group, and including a one-year course:	
Hist. 254A-254B, Seminar in Modern European History ..	6
Hist. 281A-281B, Seminar in American History.....	6
Hist. 288A-288B, Seminar in California History.....	6
Econ. 201A-201B, Development of Economic Thought	6
Pol. Science 299, Special Problems	1-3
Sociology 299, Special Problems	1-3
Hist. 290 or Thesis	3
Econ. 290 (a comprehensive examination may be substituted).	
Hist. 298 Master's Degree Seminar (or acceptable equivalent)	2
Approved Electives in Education.....	6
Other approved electives in Social Science.....	7-13
Minimum total	30 units

THE BACHELOR OF ARTS AND THE BACHELOR OF SCIENCE DEGREES

All students who are candidates for the A.B. and B.S. degrees must comply with certain basic requirements established by the State Board of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

Units

For the A.B. degree, a minimum of 124 units is necessary for graduation. Of these, at least 40 units must be selected from upper division courses. For the B.S. degree, the minimum required is 128 units.

Residence

No student shall be graduated from the College with less than 24 semester units completed in residence, and at least two semesters in residence. A minimum of 6 of the last 30 units must be taken in residence. Residence and credit in summer sessions may be substituted for regular session and unit requirements on a week-for-week and unit-for-unit basis. Thus, the residence requirement may be fulfilled by attendance for two semesters, or for one semester and three summer sessions, or for six summer sessions.

General Education

All degree candidates must complete a minimum of 45 semester units in general education outside of the major distributed as follows:

Social Sciences	9 units
Including the statutory requirement in United States history and constitution (see statement on page 42), and courses from two or more of these fields: economics, geography, history, political science, sociology.	
Natural Sciences	9 units
Including one life and one physical science course chosen from the fields of astronomy, botany, chemistry, geology, physics, physiology, and zoology.	
Literature, Philosophy or the Arts	6 units
(Fine and applied arts not to exceed three of the six units.)	
Health and Physical Education	4 units
Including a course in personal hygiene and safety.	
Oral and Written Expression	6 units
Psychology	3 units
Restricted Electives	8 units
Chosen from the above fields or from: family life education, mathematics or not more than six units of foreign language.	
Total	45 units

The student should consult his adviser concerning the choice of appropriate courses to be taken to fulfill the above requirements.

Majors and Minors

Each candidate for a degree must complete a major.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of additional time and units.

The requirement for a major varies considerably, according to the curriculum chosen by the student. He should consult the pattern outlined under the several divisions as to the requirements for the major of his choice.

In many of the degree curriculums, a minor is also required. In general, minors are designed to give breadth and background. In the curriculums leading to teaching credentials they may serve the additional purpose of providing a second subject field in which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Candidates for the general secondary credential must complete a teaching minor, which is composed of at least 20 units. Teaching minors,

which are outlined under the respective divisions, may be completed in the following fields:

Art	Journalism
Business education	Life sciences
Conservation	Mathematics
English	Music
French	Physical education
Health education	Physical sciences
Home economics	Social studies
Industrial arts	Speech

All other minors (also described under each division) consist of a minimum of 12 units, at least six of which must be in the upper division. Minors are available in the following fields:

Accounting	Home economics
Art	Industrial arts
Biology	Journalism
Botany	Mathematics
Business	Music
Chemistry	Physical education
Conservation	Political science
Economics	Psychology
Education	Radio
English	Secretarial training
French	Sociology
Health and hygiene	Speech and dramatics
History	Zoology

Scholarship

A scholarship average of "C" (index of 1.0) is required for graduation with the bachelor's degree in all work taken, and in the major and minor, as well. A student transferring from another institution must earn an average of "C" (index of 1.0) in all work completed at Humboldt State College.

Statutory Requirements in American Institutions

Students working for any degree in the state colleges must satisfy the legal requirements in United States History, United States Constitution, and California State and Local Government. These requirements may be met by completing a course or courses or by passing an examination in each of these fields. Satisfactory courses taken in other accredited colleges or universities in California may be used to fill this requirement. When the courses were taken in another state, the student must pass an examination or take a course in California State and Local Government.

Students already having degrees who are working for California teaching credentials need only meet the requirement in the United States Constitution. A satisfactory course taken elsewhere meets the requirement and no examination is necessary in State and Local Government.

Courses offered at Humboldt State College to meet these requirements in United States History are History 70, History of the United States, two units, or Economics 113, Economic and Social History of the United States, three units. The course offered at Humboldt State College to meet the requirement in United States Constitution and California

State and Local Government is Political Science 51, American Constitutional Government, two units.

Spelling

Students enrolled in English X or English 1A whose work indicates weakness in spelling may be required to enroll in Business Administration 4, Word Study, as a graduation requirement. Assignment to this class is made by the English faculty.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

Graduation Honors are awarded to graduating students at commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work in this institution as follows:

- Index 2.00-2.34 — with honor
- Index 2.35-2.74 — with high honor
- Index 2.75-3.00 — with highest honor

Sixty units of work completed in this institution is the normal residence requirement for graduation with honor. Consideration may be given to the student's entire record.

HONOR SOCIETIES

Chi Sigma Epsilon is the upper-division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

Rho Sigma is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A considerable number of scholarships in varying amounts have been established by individuals and organizations to provide recognition and financial assistance to capable and worthy students. Applications should be filed prior to April 1 with the Registrar for the succeeding school year. Unless the donor has stipulated otherwise, the scholarships are to be awarded by the Faculty Committee on Scholarships and Awards.

Students holding scholarships should carry a full program of at least 12 semester units. It is not expected that a student shall apply for more than one award for a given year.

SCHOLARSHIPS AND SPECIAL AWARDS FOR THE SCHOOL YEAR 1954-1955

Name of scholarship and/or donor	Amount of each	Open to		Special conditions
		High school graduate (entering freshman)	College student	
Arcata Chapter, Associated Business Girls.....	\$100	Arcata H. S.		First year secretarial training.
Arcata Business and Professional Women's Club.....	100	x	x	Emphasis on personal qualities, not necessarily on high scholarship.
Arcata Kiwanis Club honoring Maurice Hicklin.....	100	x	x	Preference given to graduate of Arcata Union High School interested in youth work (teaching, recreation, social welfare, etc.). Confirmation of board of directors required.
Arcata Lions Club.....	100	x	x	Confirmation by board of directors required.
Arcata Rotary Club Honor Entrance.....	100	Arcata H. S.		Ten recommending units in last three years of high school; recommendation of principal; emphasis upon character and participation in activity. The second half contingent upon completion of 15 units of work with 1.5 index.
Community Service.....	100	x	x	Recipient, selected on basis of merit and need, works 25 hours per semester in some community activity, such as church work, community library, youth groups or playground supervision.
*Art Students of Humboldt State College.....	100		x	Art major or minor.
Arcata Union (Gordon Hadley).....	100	x	x	Journalism.
Fred Bair—Special.....	100		x	Physical education.
Bella Vista Rod and Gun Club two, each.....	100	x	x	Wildlife management or fisheries.
Beta Sigma Phi:				
Lambda Tau Chapter.....	50	x	x	
Zeta Eta Chapter.....	60	x	x	Home economics.
Brizard Matthews Machinery Company.....	100	x	x	Forestry-lumbering.
Henry F. Brizard Memorial (Mrs. Henry F. Brizard):				(One of these scholarships should go to student in field of business administration).
Honor Entrance.....	100	Arcata H. S.		Recommendation of principal.
Upper Division Honor.....	150		Jr. or Sr.	Index: 2.00; commendable participation in an activity.
Special Honor.....	100		So., Jr., or Sr.	Index: 1.5 or better; outstanding work in a special field, and commendable participation in an activity.
Nelle Newby Brizard Memorial (Paul A. Brizard)—two, each.....	100	x	x	
California State Employees Association.....	100		Jr.	High scholarship.
*Carlotta Woman's Club.....	50	x		

* Recipient selected by the donor or his agent.

SCHOLARSHIPS AND SPECIAL AWARDS FOR THE SCHOOL YEAR 1954-1955—Continued

Name of scholarship and/or donor	Amount of each	Open to		Special conditions
		High school graduate (entering freshman)	College student	
Samuel D. and Marie L. Cerini Memorial (Evelyn Cerini)—two, each-----	\$100	x	x	Preference to student majoring in business administration; need emphasized.
Edith R. Craig (Ann Craig) --	100		So.	Index: 2.00; commendable partici- pation in an activity; need may be considered.
John F. Craig Memorial (Ann Craig)-----	100		Jr.	Index: 2.00; commendable partici- pation in an activity; need may be considered.
Crescent City Rotary Club---	100	x	x	Del Norte student; need empha- sized.
*Crescent City Woman's Club--	100		Jr. or Sr.	Secretarial science; need con- sidered.
*Desk Force-----	25			
T. M. Dimmick-----	100	x	x	
*Eureka High School Chapter, California Scholarship Fed- eration-----	50	Eureka H. S.		
*Eureka Kiwanis Club—three, each-----	100	Eureka H. S.		
Eureka Lions Club—two, each-----	100	x	x	One man and one woman; need considered; confirmation of board of directors required.
*Eureka Quota Club—three, each-----	100	x		
Eureka Rotary Club-----	150		Jr. or Sr.	Graduate of Eureka High School; need considered.
*Eureka Soroptomist Club----	150	x	x	One scholarship (\$75) each semes- ter; resident of Humboldt County, enrolled in a degree curriculum.
*Eureka Woman's Club—two, each-----	100	Eureka H. S.		
Fortuna Kiwanis Club-----	100		So.	Outstanding student in first two semesters at Humboldt State College; male graduate of For- tuna Union High School.
Fortuna Monday Club honor- ing Margaret Dickson----	100		x	Graduate of Fortuna Union High School; private lessons in music; awarded on basis of try-out.
*Fortuna 101 Club-----	200			
*Fortuna Quota Club-----	100	Fortuna H. S.		
*Fortuna Rotary Club-----	100	Fortuna H. S.		
*Garberville Business and Professional Women's Club--	100			
*Garberville Civic Club-----	100			
Geneva Lumber Company----	100	x	x	
Belle W. Glaser Memorial (Belle Dickson)-----	50		Jr. or Sr.	Interest and ability in music; need may be considered.
Henderson Center Kiwanis Club-----	50	x	x	Wildlife management, forestry- lumbering, or fisheries.
*Hoopa Tribal Council-----	400			

* Recipient selected by the donor or his agent.

SCHOLARSHIPS AND SPECIAL AWARDS FOR THE SCHOOL YEAR 1954-1955—Continued

Name of scholarship and/or donor	Amount of each	Open to		Special conditions
		High school graduate (entering freshman)	College student	
Humboldt County Federation of Woman's Clubs—private lessons, four, each...	\$100			Major or minor in music; awarded on basis of try-outs.
Humboldt Pomona Grange...	100	x	x	Agriculture, veterinary science, nursing, or education in order named; need to be considered.
Humboldt State College Music Faculty—private lessons valued at \$100: Leland Barlow (voice) (Leland Barlow).....	100	x	x	Awarded on recommendation of music faculty.
L. J. Fulkerson Memorial (piano) (Charles Fulkerson).....	100	x	x	Awarded on recommendation of music faculty.
Mary Robinson Hunt Memorial (Dr. Vernon L. Hunt).....	100	x	x	
Betty Jackson Memorial (Faculty Wives Club, and others).....	50	x	x	Business administration.
Nordell Anthony Kaspar Memorial.....	200	S. Humboldt		Preference to male graduate of South Fork or Fortuna Union High Schools, majoring in science.
*Klamath Business and Professional Women's Club.....	100			
Dr. Lowell G. Kramer Memorial (Humboldt County Medical Society).....	200		x	Premedical or predental student (usually in upper division); emphasis upon character and intelligence; selected by donor on recommendation of the college.
Laura P. Mahan Estate—four, each.....	200	x	x	Two of the four go to art majors; recipients must be graduates of Humboldt County high schools; confirmation of Trust Committee, Bank of America, (Eureka) required.
Robert W. Matthews.....	100	x	x	Secretarial training or business.
Robert Neloms.....	100	x	x	
North Arcata Kiwanis.....	50	x	So.	Preference to entering freshman who has been a member of the Key Club.
Pacific Lumber Company—two, each.....	100	x	x	One award is to go to a student in the forestry-lumbering curriculum.
Ernest Pierson.....	100	x	x	Resident of the Eureka High School District.

* Recipient selected by the donor or his agent.

SCHOLARSHIPS AND SPECIAL AWARDS FOR THE SCHOOL YEAR 1954-1955—Continued

Name of scholarship and/or donor	Amount of each	Open to		Special conditions
		High school graduate (entering freshman)	College student	
Alfred Piltz Endowment (one or more, depending upon money available from Piltz Endowment)-----	\$100	x	x	Graduates of Humboldt County high schools who show evidence of financial need.
Franz F. Roeber Estate— two, each-----	100	x	x	Preference given to students of German descent.
Sydney L. Schmitt Memorial (Peter F. Schmitt)-----	100	x	x	Business administration; genuine financial need.
Scotia Kiwanis Club-----	100	x	x	Preference to worthy student from southern Humboldt County, in the forestry-lumbering curric- ulum.
Scotia Volunteer Fire Depart- ment—two, each-----	100	x	x	One man and one woman gradu- ated from Fortuna, Ferndale, or South Fork High Schools.
Sealbearer (donated anony- mously)-----	100	x		Life membership in California Scholarship Federation.
William B. Smullin-----	100	x	x	
Jessie T. Sorenson-----	100	x	x	Speech and Drama major.
*South Fork Parent Teachers Association-----	50	x		
Student and Professional En- gineers (Engineering Club of Humboldt State College, and Northwestern Cali- fornia Civil Engineers' and Surveyors' Association)-----	100		x	Student enrolled in technological program (engineering, physics, mathematics, or chemistry); con- firmation of Engineering Club re- quired.
Teacher Education (California Congress of Parents and Teachers)—two, each-----	200		Sr.	Elementary education.
Stuart J. Titlow Memorial (Mrs. Stuart Titlow and Robert Titlow)-----	100	x	x	
*Ukiah Business and Profes- sional Women's Club-----	150			
*Woman's Auxiliary to the Humboldt County Medical Society-----	500		x	Completion of two-year prenursing course and admission to an ap- proved school of nursing (pref- erably University of California or Stanford University Hos- pitals). Character, personality, and aptitude for nursing as well as financial need will be con- sidered.

* Recipient selected by the donor or his agent.

SCHOLARSHIPS AND SPECIAL AWARDS FOR THE SCHOOL YEAR 1954-1955—Continued

Name of scholarship and/or donor	Amount of each	Open to		Special conditions
		High school graduate (entering freshman)	College student	
Walter N. Wood Memorial (Arcata Union High School music groups and others) ..	\$50	Arcata H. S.		An outstanding music student (instrumental field) who will include some music in his or her program at Humboldt State College; confirmation of high school required.
*Y.W.C.A. Leadership (Mrs. Ralph Bull, J. H. Crothers, Mr. and Mrs. J. J. Krohn, Oscar Lord, Mrs. E. B. Lytel, Mrs. Hugh Smith, Mr. and Mrs. Sam Stamm, Mr. and Mrs. A. W. Way, and Mrs. Frank Williams) —four, each	100	x	x	Recipients assist with projects in handling youth groups.
Physical Education Awards (Chris Artunas, Fred Bair, Richard Fleischer)—six, each	50	x		Graduates of Humboldt or Del Norte County high schools who will major or minor in physical education; satisfactory scholarship and performance in athletics.
†Charles R. Barnum Trust Fund for Historical Research of Humboldt County ..	100		x	Awarded on the basis of an essay on an announced topic related to the history of Humboldt County. Selection made by a committee of three.
The Corbett Award (Mrs. George Corbett)—two	Cash		x	Awarded to the "Man-of-the-Year" and the "Woman-of-the-Year" as selected by the <i>Sempervirens</i> staff.
Chi Sigma Epsilon Freshman Award	Medal		Fr.	Awarded to the student who has made the highest scholastic record in the freshman class at Humboldt State College.
Delta Kappa Gamma (Pi Chapter) Education Award ..	\$25		x	An upper division or graduate woman student in field of education; based on promise of success in teaching, character and personal growth, satisfactory scholarship; awarded by Committee on Scholarships and Awards upon the recommendation of college faculty members in Division of Education and Psychology.
Eureka Newspapers Award in Journalism	25		x	For the best writing in the <i>Lumberjack</i> .
Faculty Women's Gift	Cash		Sr.	To the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

* Recipient selected by the donor or his agent.

† Not awarded 1954-55.

LOAN FUNDS
The Office of the Dean of Students
Will Supply Detailed Information on Any Loan Fund

Name of Loan Fund and/or Donor	Available to	Purpose	Maximum Loan	Due Date	Interest Rate	Date Interest Begins
Alumni Student Loan Fund	All Students	As Needed	*Determined by need Total Registration Fees	Indicated on note	6%	On due date of note
Humboldt Associated Loan Fund	All Students	State Registration Fees		During Semester	6%	Date loan is made
C. E. McCready Loan Fund	All Students	As Needed	*Determined by need \$90	Indicated on note	6%	On due date of note
Regular Loan Fund	Seniors	As Needed		After Graduation	4%	First of month following graduation
Mrs. H. W. Jackson Loan Fund	All Music Students	Help Music Students	*Determined by need and approved by Music Dept. Faculty	Indicated on note	6%	On due date of note
Rotary Club Loan Fund (Eureka Rotary Club)	All Students	As Needed	Student recommended to the Eureka Rotary Club by the Associate Dean of Students (Guidance)			
Jake Gimble Loan for Graduate Study	Men from approved college	Graduate Study	\$1,000.00	Over a ten-year period	none	

* As a matter of practice these loans are limited to a maximum of \$90.

AUXILIARY COLLEGE SERVICES

SUMMER SESSION

The summer session meets the needs of a wide variety of students. It is of particular value to those who wish to accelerate their work. High school graduates may enter as freshmen during the summer instead of waiting until fall. A student who attends the summer session each year while he is in college may be able to cut as much as a full year from the time necessary to complete the requirements for a degree. Many courses are planned especially for teachers or others who may be working on credentials or a master's degree. It is possible to enroll as a special student in the summer session without seeking admission to the College as a regular student. The temperate climate and the scenic beauty of the region make Humboldt a very attractive place to spend the summer. The Summer Session Bulletin or other information may be obtained from the Office of the Summer Sessions.

EXTENSION PROGRAM

To supplement its regular program of offerings the College conducts an extension program, with classes scheduled to be held one evening each week in various nearby localities. Any undergraduate course listed in the College Catalog can be offered in extension if there is sufficient demand. Whenever a course is requested by 15 or more individuals, an attempt will be made to organize a class for them in a convenient location. Requests for such courses, or for information concerning them, may be addressed to the Coordinator of Extension Services at the College.

Consult the Academic Calendar for extension registration dates.

LATE AFTERNOON AND EVENING CLASSES

In addition to the regular extension courses, a number of regular college classes are scheduled late in the afternoon or in the evening. This often makes it possible for students who are employed full time during the day to carry a part-time load of college classes. Most of the graduate courses are scheduled at these hours to enable teachers in the region to attend them.

PLACEMENT SERVICE

The Teacher Placement Office of the College is maintained to assist graduates and alumni to find educational positions best suited to their training and ability, and to assist administrators by recommending to them candidates best qualified for the positions to be filled. For those registered with the Teacher Placement Office confidential recommendations are compiled and furnished to prospective employers together with other data concerning the candidate. Alumni are encouraged to keep their records active in the Teacher Placement Office, and to use its services in seeking new positions.

Graduates other than teachers are assisted in finding suitable employment in government, business, and industry through the cooperative service of the Coordinator of Student Affairs and the respective instructional divisions.

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available to students. The Office of the Coordinator of Student Affairs maintains up-to-date files of campus and community employment opportunities. Application for work should be made to the Coordinator of Student Affairs immediately following registration.

Information pertaining to loans and scholarships may be found on page 44.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of an educational or cultural nature. The college auditorium seats 350. Arrangements for the serving of meals in the dining hall should be made with the Business Manager of the College.

FACULTY CONSULTANT SERVICE

Various members of the faculty of Humboldt State College are frequently called upon to serve as consultants to educational, business, and professional enterprises in the vicinity of the College. This serves both to give the College a practical tie with the economic life of the community, and to give instructors a practical outlook in teaching their classes.

COLLEGE LECTURE BUREAU

The College maintains a list of speakers from the faculty who are prepared to speak to various civic, educational, and religious groups in the area. Details concerning this service may be secured by addressing an inquiry to the Executive Dean, Humboldt State College.

COURSES OF INSTRUCTION

TWO-YEAR CURRICULUMS

OCCUPATIONAL CURRICULUMS

Students who desire to pursue an intensive two-year occupational curriculum have that opportunity in several fields. These courses are designed to give a maximum of basic instruction and practical training within the limited period, thereby attempting to attain the objective of developing an acceptable degree of vocational competence.

Upon completion of a two-year curriculum with a satisfactory record, the student will be granted a certificate of proficiency. Should a student decide to revise his objective and work toward a bachelor of arts degree, arrangements can be made, in most cases, to transfer to a four-year course of study.

Detailed descriptions of the individual courses comprising the two-year curriculums appear under their respective instructional divisions elsewhere in this catalog, but the following outlines present the programs that are currently offered.

AGRICULTURE—DAIRYING

Objective: The curriculum in agriculture is intended for those students who are looking forward to productive agriculture as their lifework. It is designed to develop understanding, abilities and attitudes which are essential to efficient farm operation, effective participation as a citizen or leader in a community, and personal satisfaction and happiness in rural living.

RECOMMENDED SEQUENCE

	Units	
	Sem. 1	Sem. 2
First Year		
A.D. 10—Introduction to Animal Husbandry	3	—
A.D. 20—Dairy Husbandry	—	3
A.D. 30—Farm Mechanics	3	—
A.D. 31—Farm Mechanics	—	3
A.D. 50—Agriculture Orientation and Vocations	1	—
Botany or Biology	3-4	—
*English	3	—
Spch. 1—Fundamentals of Speech	—	3
P.E.	$\frac{1}{2}$	$\frac{1}{2}$
Elective	—	5
	14 $\frac{1}{2}$	14 $\frac{1}{2}$

* Particular course to be determined in accord with individual needs of students.

	Second Year	<i>Units</i>	
		<i>Sem. 1</i>	<i>Sem. 2</i>
A.D. 21—Dairy Manufacturing		3	—
A.D. 1—Introduction to Soil Science		3	—
A.D. 2—Pasture and Range Management		—	3
A.D. 33—Irrigation and Drainage		3	—
A.D. 41—Farm Management		—	3
A.D. 70—Horticulture and Landscaping		—	3
A.D. 34—Farm Utilities		—	3
B.A. 21—Business Mathematics		3	—
Pol. Sci. 51—American Constitutional Government		2	—
Hist. 70—History of the United States		—	2
*Electives		1	1
P.E.		$\frac{1}{2}$	$\frac{1}{2}$
		15$\frac{1}{2}$	15$\frac{1}{2}$

DRAFTING**RECOMMENDED SEQUENCE**

	First Year	<i>Units</i>	
		<i>Sem. 1</i>	<i>Sem. 2</i>
I.A. 7A—Mechanical Drawing		2	—
Engr. 22—Engineering Drawing		—	2
Art 10—Design		—	2
Math. D—Intermediate Algebra		3	—
Math. C—Trigonometry		—	3
Engl. 1A—First Year Reading and Composition		3	—
Hist. 70—History of the United States		2	—
Pol. Sci. 51—American Constitutional Government		—	2
P.E.		$\frac{1}{2}$	$\frac{1}{2}$
Electives		5	6
		15$\frac{1}{2}$	15$\frac{1}{2}$
	Second Year		
Art 20A-20B—Fundamentals of Drawing		3	3
Art 45—Lettering		—	2
Engr. 23—Descriptive Geometry		—	2
Engr. 1A-1B—Surveying		3	3
Engr. 24—Advanced Engineering Drawing		—	2
I.A. 10—Home Planning		2	—
Phys. 2A—General Physics Lecture		3	—
Phys. 3A—General Physics Laboratory		1	—
P.E.		$\frac{1}{2}$	$\frac{1}{2}$
Electives		3	2
		15$\frac{1}{2}$	15$\frac{1}{2}$

* Suggested electives: typing, business law, economics, sociology, hygiene, chemistry, journalism, and wildlife management

GENERAL BUSINESS (MARKETING, MERCHANDISING) CURRICULUM

Objectives: To provide the student with the information and skills which constitute a desirable background for employment in the fields of retailing, selling, and advertising, or for management of a small business enterprise.

RECOMMENDED SEQUENCE

First Year

	Units
B.A. 2A—Typing I	2
B.A. 14A-14B—Accounting-Introductory (year)	6
B.A. 20—Introduction to Business and Economics	3
B.A. 21—Business Mathematics	3
B.A. 34-134—Marketing	3
Engl. 1A—First-year Reading and Composition	3
Hist. 70—History of the United States	2
Pol. Sci. 51—American Constitutional Government	2
P.E. (Physical Activities)	1
Electives	5
	30

Second Year

B.A. 25—Advertising	3
B.A. 26—Retail Store Management	3
B.A. 30—Economics of Consumption	3
B.A. 50—Salesmanship	3
B.A. 109—Business Correspondence	3
P.E. (Physical Activities)	1
Electives	14
	30

FORESTRY-LUMBERING PROGRAM *

Objective: In cooperation with local industry to provide instruction and broad practical training in the various sciences, techniques, and activities that form the background for the skilled and semi-skilled employees in the lumbering industry and forest management.

RECOMMENDED SEQUENCE

First Year

	Units	
	Sem. 1	Sem. 2
F.L. 1—Introduction to Forestry and Lumbering	3	—
F.L. 10—Forest Protection	3	—
F.L. 5—Dendrology	3	—
Engl. 1A—First-year Reading and Composition	3	—
P.E.—Physical Education Activities	$\frac{1}{2}$	$\frac{1}{2}$
F.L. 30—Woods Operation	—	3
F.L. 60—Wood Products and Technology	—	3
F.L. 55—Lumber Grading	—	2
Spch. 1—Fundamentals of Speech	—	3
Electives	3	4
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

* Students interested in a degree program in Forestry should consult their advisers regarding the requirements of the institution to which they expect to transfer for the completion of their degree programs. See also page 37.

	Second Year	<i>Units</i>	
		<i>Sem. 1</i>	<i>Sem. 2</i>
F.L. 32A-32B Forest Engineering	-----	3	3
F.L. 40—Forest and Lumber Mensuration	-----	4	—
F.L. 70—Lumber Marketing	-----	3	—
Pol. Sci. 51—American Constitutional Government	-----	2	—
P.E.—Physical Education Activities	-----	$\frac{1}{2}$	$\frac{1}{2}$
F.L. 50—Principles of Lumber Manufacture	-----	—	3
F.L. 20—Forest Management	-----	—	3
Hist. 70—History of the United States	-----	—	2
Electives	-----	3	4
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

PHOTOGRAPHY

Objective: To provide a background of technical skills and related information that will be of advantage to the student who plans to enter professional photography, or who intends to operate his own shop.

RECOMMENDED SEQUENCE

	First Year	<i>Units</i>	
		<i>Sem. 1</i>	<i>Sem. 2</i>
Art 3—Art Appreciation	-----	3	—
Art 10—Design	-----	—	3
Art 50—Elementary Photography	-----	3	—
*Chem. 2A—Introduction to Chemistry	-----	3	—
Engl. 1A—First-year Reading and Composition	-----	3	—
Spch. 1—Fundamentals of Speech	-----	—	3
H. & H. 1—Personal Health and Safety	-----	—	2
Hist. 70—History of the United States	-----	—	2
P.E.—Activities	-----	$\frac{1}{2}$	$\frac{1}{2}$
†Electives	-----	3	5
		15 $\frac{1}{2}$	15 $\frac{1}{2}$
	Second Year		
Art 51—Advanced Photography (Color, Portraiture, etc.)	-----	3	—
Art 20—Drawing or Art 23—Landscape Drawing	-----	3	—
B.A. 10—Secretarial Accounting	-----	—	3
Jn. 29—Press Photography	-----	—	1 or 2
Phyx. 2B—General Physics Lectures	-----	—	3
Pol. Sci. 51—American Constitutional Government	-----	2	—
Psych. 1—General Psychology	-----	3	—
Spch. 25—Dramatic Workshop—Lighting	-----	—	2
P.E.—Activities	-----	$\frac{1}{2}$	$\frac{1}{2}$
†Electives	-----	4	5 or 6
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

* Not required for students who have credit for one year of high school chemistry.

† Recommended electives: IA 1—Fundamentals of Woodworking, 3 units; Phyx. 15—Elementary Physics of Sound and Color, 3 units.

RECREATIONAL LEADERSHIP

Objective: A two-year course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE

	Units	
	Sem. 1	Sem. 2
First Year		
Engl. 1A-1B—First-year Reading and Composition	3	3
H. & H. 1—Personal Health and Safety	2	—
H. & H. 55—First Aid	—	2
P.E. 77—Campcraft	—	2
Soc. 1A-1B—Introduction to Sociology	3	3
Electives	7	5
P.E. Activity	$\frac{1}{2}$	$\frac{1}{2}$
	<u>15$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$</u>
Second Year		
Hist. 70—History of the United States	2	—
P.E. 31—Introductory Social Dancing	$\frac{1}{2}$	—
P.E. 33—Folk Dancing	—	$\frac{1}{2}$
P.E. 88—Club Leadership	2	—
P.E. 89—Boy Scouting Program	—	2
Pol. Sci. 51—American Constitutional Government	—	2
Psych. 1—General Psychology	—	3
Spch. 1—Fundamentals of Speech	3	—
Electives	7	7
P.E. Activity	$\frac{1}{2}$	$\frac{1}{2}$
	<u>15</u>	<u>15</u>

Recommended electives: Art 40 (Crafts), 50 (Photography), Spch. 11 (Radio Workshop), 25 (Dramatic Workshop), Geol. 1A, Zool. 165 (Ornithology), W.M. 2 (Conservation), 5 (Techniques), Engl. 178 (Children's Literature), P. E. 194A-B (Officiating), Music Activities, Soc. 103 (Crime and Delinquency), or 106 (The Community). The student must comply with rules governing admission to upper division classes.

If a student is interested in a degree program emphasizing Recreational Leadership, a group major may be arranged. See page 170.

SECRETARIAL TRAINING

Objective: The College offers two-year programs in secretarial training, and general business (with emphasis on marketing). Students electing such programs must complete a minimum of 60 semester units of college work and must maintain a scholarship average of 1.0 in order to receive the two-year diploma.

Training includes practice in operating the mimeograph, dictaphone, and other office machines in common use.

Attention is called to the fact that the college offers a four-year program in secretarial science which is recommended for those students who wish to obtain a more thorough training for positions as executive secretaries, office supervisors, and other positions calling for greater responsibility or specialized training. (See page 59.)

The placement of graduates is a function assumed by the College Placement Office. Every effort is made to secure positions for current and former graduates. In recent years, the demand has far exceeded the supply.

RECOMMENDED SEQUENCE

First Year		<i>Units</i>
B.A. 1A—Shorthand I	-----	3
B.A. 1B—Shorthand II	-----	3
B.A. 2A—Typewriting I	-----	2
B.A. 2B—Typewriting II	-----	2
B.A. 3—Filing	-----	1
B.A. 4—Word Study	-----	2
B.A. 5-6—Business Machines	-----	4
B.A. 10—Secretarial Accounting	-----	3
B.A. 21—Business Mathematics	-----	3
B.A. 41—Business English	-----	3
Engl. 1A—First-year Reading and Composition	-----	3
P.E. Activities (Including P.E. 5 or 15)	-----	1
Electives to total	-----	30
Second Year		
B.A. 1C—Shorthand III	-----	3
B.A. 2C—Typewriting III	-----	2
B.A. 18—Business Law	-----	3
B.A. 50—Salesmanship	-----	3
B.A. 109—Business Correspondence	-----	3
B.A. 112—Secretarial Training	-----	2
P.E. Activities	-----	1
Electives to total at least	-----	30

TWO-YEAR GENERAL CURRICULUM

This curriculum is designed for those who desire two years of general or cultural education training beyond high school.

REQUIREMENTS

The two-year general curriculum is divided into Group A subjects, Group B subjects and Group C subjects. Group A includes the social sciences, and allied fields of philosophy and literature. Group B includes the natural sciences, mathematics and allied fields, exclusive of such professional courses as chemistry, physics, botany, and zoology. Group C includes appreciation, skill, and activity courses in art, music, English, speech, foreign language, home economics, industrial arts, secretarial science, and recreation.

All students are required to take two units in physical education, and in addition 24 units must be chosen from one group; 12 units must be chosen from each of the other two groups (total 24 units); and 12 units of free electives from lower-division subjects.

THE DIVISION OF BUSINESS

Business Administration

Business Education

Secretarial Science

OBJECTIVES

The objectives of this division are:

1. To acquaint students with the principles governing the management of business enterprise. To develop skills in certain business functions to enable the student to become gainfully employed upon graduation.
2. To prepare students to teach business subjects in the secondary schools of California.
3. To train students in business secretarial skills and to provide a sufficiently broad business background to produce an executive-type secretary capable of the maximum assistance to business management.

CURRICULUMS

The Division of Business offers curriculums leading to:

1. General Secondary Credential and Special Secondary Credential in Business Education.
2. A.B. degree with a major in:
 - (a) Business Administration
 - (b) Business Education
 - (c) Secretarial Science
3. Diploma for a two-year program in:
 - (a) General Business
 - (b) Secretarial Training

REQUIREMENTS *

All students enrolled in the Division of Business are required to take tests to determine proficiency in spelling and business mathematics. If a student fails to pass these tests, he must enroll in B.A. 4, Word Study, and/or B.A. 21, Business Mathematics, respectively.

The Business Administration curriculum is flexible enough in the upper division to permit some degree of specialization for those students interested in emphasizing any one of the following fields of concentration:

Accounting: At least nine units chosen from B.A. 160A, Accounting, Intermediate; B.A. 160B, Accounting, Intermediate; B.A. 161, Cost Accounting; B.A. 162, Auditing; B.A. 166, Analysis of Financial Statements; B.A. 169, Federal Income Tax Procedure.

Business Management: At least nine units chosen from B.A. 127, Small Business Management; B.A. 143, Principles of Insurance; B.A. 153, Personnel Administration; B.A. 160A, Accounting, Intermediate; B.A. 161, Cost Accounting.

Merchandising: At least nine units chosen from B.A. 125, Advertising; B.A. 126, Retail Store Management; B.A. 127, Small Business Management; B.A. 128, Advertising Copy and Layout; B.A. 134B, Marketing; B.A. 136, Product Merchandising.

General Business: At least nine units chosen from the above fields approved by the adviser.

* See pages 57-58 for recommended sequence of courses for curriculums of less than four years.

The Business Education curriculum leads to the General, or to the Special Secondary Credential in Business Education. Both follow essentially the same undergraduate program, except that student teaching for the General Secondary Credential is usually done in the graduate (fifth) year. Candidates for these credentials must verify at least 1,000 hours (approximately six months) of practical experience that is related to the student's field of concentration. The fields of concentration are: (Minimum of 20 units in at least two fields. One field must be Accounting or Secretarial Training.)

1. Accounting: at least eight units selected as follows:

	<i>Units</i>
(a) B.A. 5, Business Machines; B.A. 6, Business Machines; or B.A. 106, Advanced Business Machines.....	2
(b) B.A. 160A, Accounting, Intermediate.....	3
(c) B.A. 160B, Accounting, Intermediate; B.A. 161, Cost Accounting; B.A. 162, Auditing; B.A. 166, Analysis of Financial Statements; or B.A. 169, Federal Income Tax Procedure.....	3
	8

2. Secretarial Training: at least eight units selected as follows:

(a) B.A. 3, Filing	1
(b) B.A. 5, Business Machines; B.A. 6, Business Machines; or B.A. 106, Advanced Business Machines.....	2
(c) B.A. 112, Secretarial Training	2
(d) B.A. 102, Advanced Typewriting.....	2
(e) Additional B.A. course in Secretarial Training.....	1
	8

3. Merchandising: at least eight units selected as follows:

(a) B.A. 134A, Marketing	3
(b) B.A. 125, Advertising; B.A. 126, Retail Store Management; B.A. 128, Advertising Copy and Layout; B.A. 134B, Marketing; or B.A. 136, Product Merchandising.....	5
	8

4. Business Management: at least eight units selected as follows:

(a) B.A. 118, Business Law II; B.A. 126, Retail Store Management; B.A. 127, Small Business Management; B.A. 143, Insurance; or B.A. 153, Personnel Administration.....	5
(b) Econ. 40, Elementary Statistics; Econ. 130, Business Finance; Econ. 150, Labor Economics; or Econ. 190, International Trade and Finance	3
	8

DEGREE AND CREDENTIAL REQUIREMENTS IN BUSINESS

Course numbers and titles	Busi- ness Edu- cation	Busi- ness Admin- istration	Secre- tarial Science
	(With special secondary teaching credential)	(Without a teach- ing credential)	
Lower Division			
Major:	Units	Units	Units
B.A. 1A-1B—Shorthand -----	-	-	6*
B.A. 2A and/or 2B—Typewriting -----	2*	2*	4*
B.A. —Filing -----	-	-	1
B.A. 5—Business Machines -----	-	-	2
B.A. 6—Business Machines -----	-	2	2
B.A. 10—Secretarial Accounting -----	-	-	3
B.A. 14A-14B—Accounting, Intermediate -----	6	6	-
B.A. 15—Mathematics of Finance -----	-	2	-
B.A. 18—Business Law -----	3	3	3
B.A. 20—Introduction to Business -----	3	3	3
Econ. 10—Principles of Economics -----	-	3	-
Econ. 40—Elementary Statistics -----	-	3	-
General Education:			
Engl. 1A—First Year Reading & Composition -----	3	3	3
H&H 1—Personal Health & Safety -----	2	2	2
Literature, Philosophy or the Arts -----	6	6	6
(Fine and Applied Arts not to exceed 3 of the 6)			
Natural Science -----	9	9	9
(Including one biological and one physical science)			
Physical Education Activities -----	2	2	2
Psych. 1—General Psychology -----	3	3	3
Social Science -----	9	9	9
(Including fulfillment of requirement in United States history and constitution. See p. 42.)			
Spch. 1—Fundamentals of Speech -----	3	3	3
Restricted Electives: Including the following:			
Econ. 1—Introduction to Economics -----	3	3	3
Geog. 5—Economic Geography -----	3	-	-
Electives in General Education. (See p. 41.)	2	5	5

* Students presenting satisfactory skills acquired outside the college may be excused from these courses, and may enroll in other courses to earn the required units.

DEGREE AND CREDENTIAL REQUIREMENTS IN BUSINESS—Continued

Course numbers and titles	Busi- ness Edu- cation	Busi- ness Admin- istration	Secre- tarial Science
	(With special secondary teaching credential)	(Without a teach- ing credential)	
Upper Division			
Major:	Units	Units	Units
B.A. 101—Advanced Shorthand -----	-	-	3
B.A. 102—Advanced Typing -----	-	-	2
B.A. 105—Dictation & Transcription -----	-	-	2
B.A. 109—Business Correspondence -----	3 *	-	3
B.A. 111—Office Management -----	-	-	2
B.A. 112—Secretarial Training -----	-	-	2
B.A. 118—Business Law II -----	-	3	-
B.A. 120—Business Organization -----	-	3	-
B.A. 134—Marketing -----	-	3	-
B.A. 135—Money and Banking -----	-	3	-
B.A. 150—Salesmanship -----	3	-	3
B.A. —Field of Concentration -----	20	9	-
(See pp. 59-60)			
Other Requirements:			
Educ. 113—Psychological and Social Foundations of Education -----	5	-	-
B.A. 152—Scope and Function of Business Education -----	3	-	-
Educ. 175—Core Course in Secondary Education -----	5	-	-
Educ. 181Ba—Special Methods of Teaching in the Secondary School (Business Education) -----	2	-	-
Educ. 181Bb—Special Methods of Teaching in the Secondary School (Business Education) -----	2	-	-
Educ. 370A-370B Student Teaching in the Secondary School -----	6	-	-
Electives to total -----	124	124	124
Total upper division to total -----	40	40	40
Scholarship Requirements:			
In all work taken -----	1.00	1.00	1.00
In major -----	1.00	1.00	1.00
In minor -----	1.00	-	-
In each education course taken -----	1.00	-	-
For Admission to Graduate Division:			
In major (upper and lower division) -----	1.5	-	-
In all upper division work taken -----	1.5	-	-
Additional Requirements for the General Secondary			
Credential in Business Education (Graduate Year):			
B.A. 252—Philosophy of Business Education -----	-	-	3 units
Educ. 265—Guidance in Education -----	-	-	2
Educ. 275—Seminar in Secondary Education -----	-	-	2
Educ. 370A-370B—Student Teaching in the Secondary School -----	-	-	6
Elective in the secondary subject field -----	-	-	3
Major or minor or electives (upper division or graduate courses) to total -----	-	-	30
Teaching minor (See pp. 41-42) -----	-	-	20
Scholarship requirement (all work taken in graduate year) -----	-	-	1.75

* Course in B.A. 21, Business Mathematics; or B.A. 41, Business English may be substituted on recommendation of adviser.

 REQUIREMENTS FOR MINORS IN BUSINESS

*Minors in Business**Business Administration**Secretarial Training***Lower Division**

	<i>units</i>		<i>units</i>
B.A. 14A-14B—Accounting, Introductory	6	B.A. 1A-1B—Shorthand B.A. 2A-2B—Typing	6-10*

Upper Division

Upper Division B.A. courses approved by division chairman	6	B.A. 112—Secretarial Train- ing	3
Total units required	12	Upper Division B.A. courses approved by division chairman	3
			12 - 16

* Students presenting satisfactory skills acquired outside the college may be excused from these courses, and may enroll in other courses to earn the required units.

BUSINESS ADMINISTRATION**Lower Division**

- 1A. Shorthand I** **3 units**
Introduction to Gregg shorthand simplified through the functional method approach.
Three one-hour periods per week.
- 1B. Shorthand II** **3 units**
Further development of speed in writing. A minimum speed of 80 words per minute is the objective of the course.
Three one-hour periods per week.
Prerequisite: B.A. 1A or equivalent.
- 1C. Shorthand III** **3 units**
Dictation and transcription. Speed writing beyond the 100 word per minute level.
Prerequisite: B.A. 1B or equivalent.
Three one-hour periods per week.
- 2A. Typewriting I** **1-2 units**
A skill subject designed to teach the fundamentals of touch typing in the shortest possible time. The last half of course may be taken for one unit as a refresher course.
Five one-hour periods per week.
- 2B. Typewriting II** **2 units**
Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.
Prerequisite: Business Administration 2A or its equivalent.
Five one-hour periods per week.
- 2C. Typewriting III** **2 units**
Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.
Prerequisite: Business Administration 2B or its equivalent.
Five one-hour periods per week.
- 3. Filing** **1 unit**
A vocational course in filing.
One one-hour period per week.
- 4. Word Study** **2 units**
A study of words used in business and industry with special drill on those commonly misspelled.
Two one-hour periods per week.
- 5. Business Machines** **2 units**
Instruction on Remington Rand and Burroughs key-driven calculators; Underwood-Sundstrand ten-key adding machines; Burroughs, Monroe, and Underwood-Sundstrand Bookkeeping Machines.
Six one-hour periods per week.
- 6. Business Machines** **2 units**
Instruction on Marchant, Monroe, Monro-matic and Friden Calculators; Remington-Rand and Underwood Sundstrand printing calculators.
Six one-hour periods per week.

10. Secretarial Accounting**3 units**

Designed primarily for secretaries and those preparing for general clerical work. Complete bookkeeping cycle is covered rapidly but emphasis is placed on bookkeeping for small business concerns, and clerical procedures such as pay roll preparation, customer postings, and bank reconciliations.

Two one-hour lecture periods and one three-hour laboratory period.

13. Office Practice**3 units**

See B.A. 113.

14A-14B. Accounting, Introductory (year)**3-3 units**

First semester: The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: Characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B.A. 14A.

Two one-hour lecture periods and one three-hour laboratory period per week.

15. Mathematics of Finance**2 units**

Presentation of mathematical formulas used in problems of compound interest and discounts. Application of such formulas to business problems, including valuation of certain assets and liabilities, depreciation, life insurance, etc.

Prerequisite: B.A. 21 or equivalent preparation.

Two one-hour periods per week.

18. Business Law**3 units**

Historical development of law and its functions with respect to business. Emphasis on the law of contracts, the law of agency, and the law of negotiable instruments.

Three one-hour periods per week.

20. Introduction to Business and Economics**3 units**

A survey course designed to acquaint the beginning student with the social setting, the institutions, the functions, and the administrative problems of modern business activity.

Three one-hour periods per week.

21. Business Mathematics**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. Includes fractions, percentages, simple and successive discounts, markups, etc.

One-hour lecture and two two-hour laboratory period per week.

25. Advertising**3 units**

The planning and execution of advertising for the retail business; research, budgets, media, copy, layout, and management of the advertising department.

Prerequisite: B.A. 34A or 134A or consent of instructor. See Journalism 125.

Three one-hour periods per week.

26. Retail Store Management**3 units**

A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.

Three one-hour periods per week.

- 27. Small Business Management** 3 units
A study of the problems and techniques involved in establishing and operating a small business. All aspects, from determining its nature to handling personnel and tax problems, are considered.
Prerequisite: B.A. 134 or B.A. 34A.
- 28. Advertising Copy and Layout** 3 units
A study of the principles and techniques of written communication, as applied to advertising copy writing; principles of display and preparation of layouts; techniques of the artist, engraver, and printer, as applied to advertising.
Prerequisite: B.A. 25.
Three one-hour periods per week.
- 30. Economics of Consumption** 3 units
How principles of economics and good business practices can be applied in the lives of consumers, thus promoting human welfare and a rising scale of living.
- 34A. Marketing** 3 units
The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.
Three one-hour periods per week.
- 36. Product Merchandising** 3 units
A study of the basic problems involved in performing the merchandising function in marketing a specific product; that is, the planning required in marketing the right product or service at the correct place and time, in optimum quantities, and at the right price.
Prerequisites: B.A. 134 or B.A. 34A.
Three one-hour periods per week.
- 41. Business English** 3 units
Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.
Prerequisite: Satisfactory score on Engl. X test.
- 49. Business Correspondence** 3 units
See B.A. 109.
- 50. Salesmanship** 3 units
The personality and training of the salesman; sales analysis; selling techniques and procedures.
Three one-hour periods per week.
- 69. Business Practice** 2 units
Work experience in store supervised by the instructor in cooperation with management.

Upper Division

- 101. Advanced Shorthand** **3 units**
Advanced speed writing and development of efficient techniques of transcription.
Prerequisite: B.A. 1B or its equivalent.
Five one-hour periods per week.
- 102. Advanced Typewriting** **2 units**
Emphasis on speed and accuracy technique; tabulation and specialized typing.
Prerequisite: B.A. 2B or its equivalent.
Six one-hour periods per week.
- 105. Dictation and Transcription** **2 units**
Production of the mailable letter in business. Extensive dictation and essential points of English and style.
Prerequisite: Business Administration 1C or its equivalent.
Two two-hour periods per week.
- 106. Advanced Business Machines** **2 units**
Development of skill in the operation of office machines.
Prerequisite: B.A. 5 or consent of instructor.
Six one-hour periods per week.
- 109. Business Correspondence** **3 units**
The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.
Prerequisite: English 1A.
Three one-hour periods per week.
- 111. Office Management** **2 units**
Lectures and discussions concerning the problem of office management, i.e., flow of work, physical facilities, working conditions, nature and sources of supplies and equipment.
Two one-hour periods per week.
- 112. Secretarial Training** **2 units**
Practical secretarial problems involving personality studies and business etiquette; filing; duplicating machines; voice transcription; dictation and transcription of shorthand notes.
Prerequisite: B.A. 1B, 2B, and B.A. 41, or equivalent.
Two two-hour periods per week.
- 113. Office Practice** **3 units**
Supervised on-the-job training in business offices in the area.
One conference period and eight hours in a business office per week.
- 118. Business Law II** **3 units**
A second course in business law with emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lien laws; security relations, including conditional sales, suretyships, insurance; trade regulations.
Prerequisite: B.A. 18.
Three one-hour periods per week.
- 120. Business Organization** **3 units**
Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.
Three one-hour periods per week.

- 125. Advertising** **3 units**
The planning and execution of advertising for the retail business: research, budgets, media, copy, layout, and management of the advertising department.
Prerequisite: B.A. 134 or consent of instructor. See Journalism 125.
Three one-hour periods per week.
- 126. Retail Store Management** **3 units**
A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.
Three one-hour periods per week.
- 127. Small Business Management** **3 units**
A study of the problems and techniques involved in establishing and operating a small business. All aspects, from determining its nature to handling personnel and tax problems, are considered.
Prerequisite: B.A. 134 or B.A. 34A.
- 128. Advertising Copy and Layout** **3 units**
A study of the principles and techniques of written communication, as applied to advertising copy writing; principles of display and preparation of layouts; techniques of the artist, engraver, and printer, as applied to advertising.
Prerequisites: B.A. 125 or B.A. 25.
Three one-hour periods per week.
- 133. Personal Finance and Investments** **3 units**
A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.
Three one-hour periods per week.
- 134A. Marketing** **3 units**
The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.
Three one-hour periods per week.
- 134B. Marketing** **3 units**
The scientific method and research techniques, both library and field research, with specific application to solving problems related to marketing. Methods of conducting surveys and questionnaire construction are studied and applied.
Prerequisite: B.A. 34A or 134A.
Three one-hour periods per week.
- 136. Product Merchandising** **3 units**
A study of the basic problems involved in performing the merchandising function in marketing a specific product; that is, the planning required in marketing the right product or service at the correct place and time, in optimum quantities, and at the right price.
Prerequisite: B.A. 34A or B.A. 134A.
Three one-hour periods per week.
- 143. Insurance** **3 units**
An introduction to the underlying principles of insurance, followed by the presentation and discussion of the several types of insurance policies. Policies discussed include fire, ocean marine, inland marine, liability, workman's compensation, burglary, health and accident, automobile, and surety bonds.
Three one-hour periods per week.

- 150. Salesmanship** 3 units
The personality and training of the salesman; sales analysis; selling techniques and procedures.
Prerequisite: Upper division standing or consent of the instructor.
- 152. Scope and Function of Business Education** 3 units
The principles of business education as they relate to educational and business practices. Emphasis upon evaluating business education problems and the development of a critical attitude toward solving them.
Three one-hour periods per week.
- 153. Personnel Administration** 3 units
Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.
Three one-hour periods per week.
- 160A-160B. Accounting—Intermediate (year)** 3-3 units
Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.
Two one-hour lectures and one two-hour laboratory section per week.
Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.
- 161. Cost Accounting** 3 units
Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.
Prerequisite: B.A. 14A-14B, B.A. 160A recommended.
- 162. Auditing** 3 units
Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.
Two one-hour lectures and one two-hour laboratory section per week.
Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.
- 166. Analysis of Financial Statements** 3 units
Intensive study of the data and its significance which becomes expressed in financial statements. Includes ratio analysis, working capital analysis, source and application of funds statement, and analysis of change in profit.
- 169. Federal Income Tax Procedure** 3 units
A study of the federal laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.
Prerequisite: B. A. 14A-14B.
Three one-hour periods per week.
- 199. Special Problems** 1-3 units
Research work open to advanced students with the consent of the instructor.

Graduate Division

- 252. Philosophy of Business Education** 3 units
The development of a basic philosophy of Business Education.
- 299. Special Problems** 1-3 units

DIVISION OF EDUCATION AND PSYCHOLOGY

EDUCATION CURRICULUMS

CREDENTIALS

Professional curriculums have been organized under the authority of the State Board of Education leading to recommendation for the following teaching credentials:

1. *Kindergarten-Primary*, authorizing the holder to teach in any kindergarten and in grades one to three of any elementary school.

2. *General Elementary*, authorizing the holder to teach in any elementary or junior high school through the eighth grade.

3. *Junior High School*, authorizing the holder to teach in grades seven, eight, and nine of any elementary or secondary school.

4. *Special Secondary Credential*, authorizing the holder to teach a special subject in elementary and secondary schools. Humboldt State College offers special secondary credentials in art, business education, home economics, music, physical education, and speech correction.

5. *General Secondary Credential*, authorizing the holder to teach in the secondary schools and in grades seven and eight of the elementary schools.

Majors and minors for the general secondary credential are available in many fields, listed on pages 36, 37, and 41, 42.

This credential requires the completion of a year of work after receiving the bachelor's degree.

6. *Elementary School Supervision*, authorizing supervision of elementary schools.

7. *Special Supervision*, authorizing supervision in a special subject field such as music, art, or physical education, in which the applicant holds a special secondary credential.

8. *Elementary Administration*, authorizing the administration of elementary schools.

9. *Secondary School Administration*, authorizing the administration of secondary schools.

10. *Secondary School Supervision*, authorizing supervision of secondary schools.

ADMISSION TO TEACHER EDUCATION CURRICULUMS

Students seeking admission to any curriculum in teacher education must file formal application for admission by the end of the sophomore year or as soon thereafter as possible. Application forms may be secured

from the office of the Chairman of the Division. A committee on credentials will study carefully the qualifications of each applicant, by means of appropriate tests, personal interviews, and other pertinent data. The record of each candidate is subject to periodic review, and failure to maintain the minimum standards prescribed for the curriculum to which the student has been admitted may result in termination of his enrollment therein. Candidates will be accepted who have met the following standards, based on the regulations of the State Board of Education:

1. *Intelligence.* All candidates are required to make a satisfactory score on a standard college aptitude test.

2. *Scholarship.* An average of 1.0 in all lower division work will be necessary for unqualified admission to a teacher education curriculum.

3. *Type of Program Pursued.* The candidate must have completed two years of liberal arts education, as well as the courses prerequisite to the training for the type of credential sought.

4. *Professional Aptitude, Personality, and Character.* The candidate must demonstrate suitable aptitude and fitness for teaching and for adjustment to public school conditions. Evidence of this will be found in personality and character traits which are in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, co-operativeness, temperament, and integrity.

5. *Physical Fitness.* The candidate must comply with the standards of physical fitness required for a teaching credential.

6. *Speech and Language Usage.* Better than average proficiency in oral and written language is required.

7. *Many-sided Interest.* The candidate must demonstrate diverse and well-balanced interests. He shall be able to understand and interpret his major interest and field of study in suitable relationship to all others.

8. *Fundamentals.* All candidates are required to demonstrate proficiency in the fundamental school subjects. A satisfactory score must be made on standard tests in: arithmetic, elementary science, language usage, reading, social studies, and spelling. The student is also expected to demonstrate proficiency in handwriting.

9. *Proficiency in Major Field.* No candidate will be admitted to a secondary or junior high school curriculum without a written statement from his subject adviser verifying the candidate's ability and likelihood of teaching success in his major field.

GENERAL CREDENTIAL REQUIREMENTS

Units Required. For those credentials which may be granted concurrently with the A.B. degree, 124 units are required. If a candidate already possesses an A.B. degree, the minimum requirement is 24 units completed at this College.

United States Constitution. All candidates for credentials are required to pass satisfactorily a course or an examination in United States Constitution or to present appropriate courses from an accredited institution.

Citizenship. Only citizens of the United States may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

Majors and Minors. Candidates for the general elementary and the kindergarten-primary credentials will complete a major in Education and a minor in a field selected in consultation with their advisers. Candidates for the general junior high school credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the special secondary credentials must complete a major in the special field. Completion of a minor in a high school subject field is recommended, particularly for those who plan later to complete a general secondary credential. Candidates for a general secondary credential must complete a major and a teaching minor, in subjects taught in the high school. A secondary teaching minor requires a minimum of 20 units while a secondary major requires a minimum of 36 units in a field, at least 12 of which must be in the upper division.

Division requirements may occasionally exceed these minimum standards.

Scholarship. Candidates for teaching credentials must comply with the following scholarship requirements:

1. A grade of "C" or better must be earned in each required course in Education. Students who fail to meet this requirement cannot be admitted to student teaching.
2. A grade index of 1.0 or better in all college work is required for admission to Education 133 or 175.
3. Candidates for the general secondary credential must maintain an index of 1.5 on all work taken in the upper division and the major field and 1.75 on all work taken in the graduate year.
4. The only grade given for student teaching is either "+" (satisfactory), inc. (incomplete), or "F" (failure). A grade of "incomplete" indicates that the student may be allowed an additional time in which to meet the required standards. A grade of "F" indicates that the candidate is considered to lack the requisite qualities for successful teaching. The units earned in student teaching do not figure in the calculation of the candidate's scholarship index.

COURSE REQUIREMENTS FOR CREDENTIAL CURRICULUMS

The curriculums outlined below have been developed to enable the student to meet the requirements of the college for the A.B. degree including a minimum of 45 units of general education, and at the same time to qualify the candidate for recommendation for a teaching credential. It is recommended that these curriculums be followed carefully, as they have been planned to insure the successful student a strong background of general and professional preparation for teaching. In order to meet

requirements for prerequisites, courses should be taken in the year suggested whenever possible. Some courses are available only once a year or once in each two years. The student must be careful to take such courses whenever offered so as to avoid possible delay in obtaining a credential. Selection of a minor and of electives should be done in consultation with the student's adviser.

RECOMMENDED COMBINATION DEGREE-CREDENTIAL CURRICULUM

Course numbers and titles	Elementary Kind.-Prim. Junior H. S. Credential* Credential* Credential*		
	First Year	Units	Units
Engl. 1A-1B—First-year Reading and Composition	6	6	6
H. & H. 1—Personal Health and Safety	2	2	2
Mus. 10—Musicianship	3	3	—
Natural Science (including at least one course in biological sciences. Biol. 10A-10B is recommended)	6	6	6
Educ. 1—Introduction to Teaching	1	1	1
P.E. 5 or 15—Freshman Physical Activities	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E.—Selected activity	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Social Science (Soc. 1A-1B or Hist. 4A-4B is recommended)	6	6	6
Electives or minor	6	6	9
Second Year			
Art 1—Art Structure	2	2	—
Literature or Philosophy	3	3	3
Mus. 60 or 65—Chorus or A Cappella Choir	1-2	1-2	—
Natural Science (including at least one course in physical sciences. Phys. Sci. 5A-5B is recommended)	6	6	3-6
P.E.—Selected Activities	1	1	1
Psych. 1—General Psychology	3	3	3
Social Sciences, including:			
Geog. 5—Introduction to Economic Geography	3	3	—
Hist. 70—History of the United States	2	2	2
Pol. Sci. 51—American Constitutional Government	2	2	2
Spch. 1—Fundamentals of Speech	3	3	3
Electives or minor	4-8	4-8	11-14
(or major for junior high school credential)			
Third Year †			
Educ. 113—Psychological and Social Foundations of Education	5	5	5
Educ. 133A—Elementary School Curriculum (Grades 1-4)	—	4	—
Educ. 133B—Elementary School Curriculum (Grades 5-8)	—	—	4
Educ. 153—Audio-Visual Education	2	2	2
Educ. 120A—Elementary School Art	2	2	4-5 (Choose any two courses)
Educ. 120IA—Elementary School Industrial Arts	2	2	
Educ. 120M—Elementary School Music	2	2	
Educ. 120PE—Elementary School Physical Education	2	2	
Educ. 120S—Elementary School Science	2	2	
Educ. 180 or Educ. 181—The Teaching of Secondary School Subjects	—	—	2
Engl. 178—Children's Literature	3	3	3
P.E. 191—Singing Games and Folk Dances	1	1	—
Electives or minor or major	9	5	10-11

* Unless candidates show satisfactory proficiency in mathematics, they may be required to pass a course offered by the college for the removal of this deficiency.

† The Coordinator of Student Teaching will assign students enrolled for the general elementary or the kindergarten-primary credentials to one of two sequences to distribute the opportunities for student teaching equitably between the two semesters.

RECOMMENDED COMBINATION DEGREE-CREDENTIAL CURRICULUM—Continued

Course numbers and titles	Elementary Kind.-Prim. Junior H. S. Credential Credential Credential		
	Fourth Year		
	Units	Units	Units
Educ. 104—Principles of Elementary Education----	2	2	-
Educ. 133A-B—Elementary School Curriculum ----	8	-	-
Educ. 137—Rural Education -----	2	-	-
Educ. 175—Core Course in Secondary Education----	-	-	5
Educ. 131A-B—Kindergarten Methods and Materials -----	-	4	-
Educ. 330A—Student Teaching—Grades 1-4-----	5	5	-
Educ. 330B—Student Teaching—Grades 5-8-----	5	-	5
Educ. 331—Student Teaching—Kindergarten-Pri- mary -----	-	5	-
Educ. 370A—Student Teaching—Secondary-----	-	-	3
Electives or minor or major-----	9	15	18

Students are advised not to take the junior high school credential alone because of its limited authorization and because it cannot be used as a basis for an administration credential. Candidates for a combination of the general elementary and the junior high school credentials should meet the requirements for the general elementary credential and take in addition:

Educ. 180 or Educ. 181-----	2 units
Educ. 175 -----	5 units
Educ. 370A -----	3 units

Since completion of a major and a minor in junior high school fields is required, it may be necessary for the student to use a portion of his elective units in meeting these requirements. At least one summer session in addition to the four years may be needed to complete requirements for the two credentials.

Holders of the general secondary credential may qualify for the general elementary credential by taking an additional six units in elementary education, including methods of teaching basic elementary school subjects, curriculum, and student teaching.

SPECIAL SECONDARY CREDENTIALS

These credentials represent a high degree of specialization in a particular subject field at both the elementary and the secondary levels. The holder must have training and competence to qualify him for teaching his subject at either level. Specific requirements for these credentials are given under the respective divisions as follows:

Division of Fine and Applied Arts

Special secondary credential in arts, pages 87-88.

Special secondary credential in home economics, pages 93-94.

Special secondary credential in music, pages 100-101.

Special secondary credential in speech correction, pages 107-109.

Division of Health and Physical Education

Special secondary credential in physical education, pages 116-119.

Division of Business

Special secondary credential in business education, pages 61-64.

The student begins his professional training in the junior year. It is recommended that the courses in education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education.....	5 units
Educ. 153—Audio-Visual Education	2 units
Electives, major or minor.....	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education.....	5 units
Educ. 320—Student Teaching in the Elementary School (Major Field)---	2 units
Educ. 370A—Student Teaching in the Elementary School (Major Field)---	3 units
Educ. 180 or Educ. 181—The Teaching of (Major Field).....	2 units
Electives, major or minor.....	18 units

Candidates for a special secondary credential are urged to secure a general credential for either elementary or secondary teaching in addition to the special credential. The requirements for the general secondary credential are for the most part a continuation of the work done for the special credential. A flexible program can be arranged to permit the candidate to qualify for a general elementary credential in addition to the special secondary. Information on this program may be secured from the office of the Chairman of the Division.

GENERAL SECONDARY CREDENTIALS

The program for this credential must provide a broad, cultural background, plus professional preparation for effective secondary school teaching. Since this is a part of a graduate program the requirements are somewhat more exacting than for certain other credentials. They are summarized below.

Summary of General Requirements

1. Possession of an approved bachelor's degree from a recognized college or university with a scholarship average of 1.5 for all work taken in the upper division and in the major field. Formal application for graduate standing must be made in the Office of the Registrar.

2. Fulfillment of the requirement in United States Constitution.

3. Formal admission to the curriculum in secondary teacher education. Application should be made at the end of the sophomore year. Students who transfer to Humboldt State College during their junior year or later should apply during their first semester of residence. Candidacy is subject to continuous review until the credential is earned.

4. Completion of a graduate year of two semesters or the equivalent (upper-division or graduate work), with at least 30 units of work beyond the bachelor's degree with a grade point average of 1.75 or better, including at least six units in professional courses in Education and six units in subjects commonly taught in the junior or senior high school. A maximum of six units may be earned in extension courses.

5. Completion of a teaching major with at least 36 units of lower, upper-division, and graduate work, at least 12 in the upper-division.

6. Completion of a teaching minor with a minimum of 20 units.

7. Completion of at least 40 units of general education courses, including at least six units from each of the following fields: science and mathematics, practical and fine arts, social studies, English and speech.

8. Completion of 24 units in courses in Education with a grade of "C" or better, at least six of which must be taken in the graduate year, and including six units of student teaching in the major and minor fields.

9. Completion of at least 24 units of work in residence at Humboldt State College, including at least 15 of the 30 required in the fifth year.

Detailed requirements are given under the appropriate instructional divisions as indicated above. It is recommended that the courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education	5 units
Educ. 153—Audio-Visual Education	2 units
Electives or major or minor	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education	5 units
Educ. 180 and/or Educ. 181—The Teaching of Secondary School Subjects (Major and Minor fields)	2-4 units
Completion of pre-secondary requirements and teaching minor	21 units

Fifth Year

Educ. 265—Guidance in Education	2 units
Educ. 275—Seminar in Secondary Education	2 units
Educ. 370A-370B—Student Teaching	6 units
Upper Division or Graduate courses in teaching fields	6 units
Major, minor, or electives	14 units
Total	30 units

Students planning to earn a master's degree in combination with the general secondary credential will be required to take the additional graduate courses in Education prescribed on page 39.

ADMINISTRATION AND SUPERVISION CREDENTIALS

Humboldt State College is accredited to offer courses which satisfy the requirements for the administration and supervision credentials for both the elementary school and the secondary school.

General requirements for these credentials are the possession of a valid general credential, and two years of successful teaching experience. For the credential authorizing elementary school service, the teaching experience must be in the elementary school.

Course requirements for these credentials are as follows:

ELEMENTARY AND SECONDARY ADMINISTRATION AND SUPERVISION
CREDENTIAL REQUIREMENTS

<i>Course Numbers and Titles</i>	<i>Administration</i>		<i>Supervision</i>	
	<i>Secun- dary</i>	<i>Elem- entary</i>	<i>Secun- dary</i>	<i>Elem- entary</i>
	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Educ. 140—Field Problems in Administration-----	2	2	—	—
Educ. 141—Field Problems in Supervision-----	—	—	2	2
Educ. 233—Advanced Curriculum Construction-----	2	2	2	2
Educ. 240—Administration of Elementary Schools---	—	2	—	2
Educ. 241—Supervision of Instruction-----	2	2	2	2
Educ. 242—Administration of Secondary Schools----	2	—	2	—
Educ. 243—The Public School System-----	2	2	—	—
Educ. 245—School Finance -----	2	2	—	—
Educ. 246—School House Planning-----	2	2	—	—
Educ. 248—Legal Aspects of Education-----	2	2	—	—
Educ. 260—Evaluation of Learning-----	2	2	2	2
Educ. 265—Guidance in Education-----	2	2	2	2
Electives chosen to meet needs of the student's professional and general education-----	—	10	3	12
Total units required-----	20	30	15	24

Residence Requirement. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence here.

The special supervision credential may only be granted to holders of special secondary credentials in a given field. See the Chairman of the Division for requirements.

REQUIREMENTS FOR THE A.B. WITH A MAJOR IN EDUCATION

Completion of the curriculum for a general elementary or a kindergarten-primary credential automatically includes a major in elementary education. Requirements for this curriculum are outlined on pp. 74-75. Candidates for a junior high or a secondary credential will not ordinarily take a major in Education, as they must complete a major in a subject field.

Students who have special need for a major in Education without a teaching credential should arrange the details of their program with the Chairman of the Division of Education and Psychology. In general, such a major would consist of a minimum of 24 units of upper-division work in Education, with an emphasis on either the elementary or the secondary level. General requirements for this major are as follows:

Elementary Emphasis

Educ. 113—Psychological and Social Foundations of Education (or the equivalent) -----	5 units
Educ. 133A or 133B—Elementary School Curriculum (or the equivalent) ----	4 units
Directed electives in Education-----	15 units
Total-----	24 units

Secondary Emphasis

Educ. 113—Psychological and Social Foundations of Education (or the equivalent)	5 units
Educ. 175—Core course in Secondary Education (or the equivalent)	5 units
Directed electives in Education	14 units
Total	24 units

Candidates for a general secondary credential who elect to submit two teaching minors and a major in Education in lieu of the customary pattern must complete a major of at least 36 units in Education, a part of which may be done in the graduate year. In addition to the required courses in Education for the secondary credential, the major would include directed electives to bring the total to a minimum of 36 units.

DESCRIPTION OF COURSES**Lower Division****1. Introduction to Teaching** **1 unit**

The student is helped to determine, early in his college career, whether or not he should pursue the teacher education curriculum. This is accomplished by acquainting the student with the various aspects of education as a profession, and providing many opportunities for observing school situations.

Two one-hour class periods per week plus special assignments.

2. Introduction to Teaching **1-2 units**

Opportunities are provided the student to keep in touch with children during the lower division years to help him reach a decision as to whether or not he desires to be a teacher. Observation and participation in classroom activities under the direction of a supervising teacher is the usual procedure.

Three hours per week per unit.

Prerequisite: Education 1 or consent of the instructor.

Upper Division**102. Observation and Participation** **1-2 units**

An opportunity for upper division students to obtain a better understanding of teaching through supervised participation in classroom situations.

This course is not applicable to the requirement in directed teaching.

From three to six hours per week, depending upon units to be earned.

Prerequisite: Consent of the instructor.

*** 113. Psychological and Social Foundations of Education** **5 units**

The social role of education; physical, intellectual, emotional growth and development; learning processes; integration with others. Includes case studies, observation of and participation in school situations, and pupil appraisal.

Five one-hour periods per week.

Prerequisite: Psychology 1 and completion of 60 units.

120. The Teaching of Elementary School Subjects **Each course 2 units**

A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.

These courses should be taken prior to directed teaching, and include the following:

Educ. 120A—Elementary School Art

Educ. 120IA—Elementary School Industrial Arts

Educ. 120M—Elementary School Music

Educ. 120PE—Elementary School Physical Education

Educ. 120S—Elementary School Science

* This course fulfills specific requirements for Educational Psychology, Child Growth and Development, and Educational Sociology.

130. Principles of Elementary Education**2 units**

Principles guiding the various aspects of good teaching are developed consistent with current educational thought. Students will be given opportunities to apply these principles to practical situations.

Two one-hour periods per week.

131A-131B. Kindergarten Methods and Materials**2-2 units**

The nature and purpose of the kindergarten and preparation and arrangement of facilities, including the construction of simple playhouse furniture and floor toys; the basic methods and skills involved in conducting kindergarten, including art, music, science, and cooking activities. Observation and participation in kindergarten activities.

Prerequisite: Education 113 and clear admission to the curriculum in kindergarten-primary education.

Two one-hour periods per week.

133A-133B. Elementary School Curriculum**8 units**

133A—Lower grades.

133B—Upper grades.

A comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

Prerequisite: Education 113 and clear admission to the curriculum in elementary teacher education.

137. Rural Education**2 units**

The place of the school in rural communities. School organization, methods, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

140. Field Problems in Administration**2 units**

Directed field work on a selected problem in school administration, culminating in a formal written report.

141. Field Problems in Supervision**2 units**

Directed field work on a selected problem in school supervision, culminating in a formal written report.

153. Audio-Visual Education**2 units**

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

175. Core Course in Secondary Education**5 units**

A study of the legal and professional obligations of the secondary school teacher; the principles, practices, and philosophy of secondary education; the secondary school curriculum; the methods used in directing the learning situation, classroom organization and management; measurement of achievement. Observation of secondary schools and participation in school activities will be required.

Prerequisite: Education 113 and clear admission to a curriculum in secondary teacher education.

Five one-hour periods per week.

180. General Methods in Secondary School Subjects**2 units**

Conference course in general teaching techniques emphasizing methods in the core subject fields. To be taken concurrently with student teaching.

181. Special Methods in Secondary School Subjects (Special Subject)**2 units**

Consideration of curriculum and teaching methods in specific subject fields.

The numbers and titles of these courses, to be offered as needed, are:

- Educ. 181A—The Teaching of Art
- Educ. 181B—The Teaching of Business Education
- Educ. 181C—The Teaching of Conservation
- Educ. 181E—The Teaching of English
- Educ. 181HEc—The Teaching of Home Economics
- Educ. 181IA—The Teaching of Industrial Arts
- Educ. 181M—The Teaching of Music
- Educ. 181Ma—The Teaching of Mathematics
- Educ. 181S—The Teaching of Science
- Educ. 181SS—The Teaching of Social Studies
- Educ. 181Sp—The Teaching of Speech
- Educ. 181PE—The Teaching of Physical Education

199. Special Problems

1-2 units

Independent study in Education under the direction of the College.

Graduate Division

Prerequisite to admission to any strictly graduate course in education is a minimum of 12 semester units of undergraduate work in education including Education 113 and Education 133A-133B or Education 175, or their equivalents.

205. History and Philosophy of Education

2 units

The development of the major theories of education, with their contributions and applications to modern educational procedures. The student is afforded opportunities to evaluate critically the contributions of the past in developing an understanding of education in a democracy.

Two one-hour periods per week.

230. Seminar in Elementary Education

2 units

An advanced course in elementary education, dealing with the findings of modern educational research relative to current issues in curriculum development and teaching method.

Prerequisite: Teaching experience or consent of the instructor.

233. Advanced Curriculum Construction

2 units

A study of the structure and organization of the school curriculum from the standpoint of the administrator and supervisor. An analysis of current trends in education and a study of significant investigations and their influence upon the school curriculum. Guidance in planning curriculum materials for local use.

240. Administration of Elementary Schools

2 units

The responsibilities of the principal of the elementary school with reference to public relations, personnel, instruction, finance, and housing. The work of the principal is studied in contrast with that of the superintendent.

241. Supervision of Instruction

2 units

A course designed to develop the concept of supervision as democratic and cooperative educational leadership, stressing the use of scientific principles in the organization of a supervisory program and its evaluation.

242. Administration of Secondary Schools

2 units

The responsibilities of the principal of the secondary school in public relations, personnel, instruction, finance, and housing. The work of the principal is distinguished from that of the superintendent.

243. The Public School System

2 units

The Federal Government in education; administration of state systems of public education and relationship to intermediate units and local school districts.

244. Supervision of Student Teaching

2 units

Survey of literature and current practices including procedures employed at Humboldt State College. Preparation of guides for supervising student teachers.

Prerequisite: Consent of the Instructor.

- 245. School Finance** **2 units**
Principles of sound financial administration of a school system ; sources of school funds, with special reference to the California system of school finance ; sound budget procedures ; school accounting ; federal aid for education.
- 248. Legal and Professional Aspects of Education** **2 units**
Legal principles of education as interpreted by the federal and state courts, with special reference to the Education Code of California.
- 260. Evaluation of Learning** **2 units**
The selection, use, and interpretation of formal and informal methods of evaluating learning ; use of standard statistical procedures in the interpretation of results ; and practice in administering evaluation instruments.
Two one-hour periods per week.
- 265. Guidance in Education** **2 units**
Advanced study of the principles involved in assisting the student in the formulation and acceptance of adequate personal, educational, and vocational objectives ; a critical study of the bases of individual differences and of appropriate educational adjustments ; organization and use of cumulative personnel data in guidance procedures.
- 275. Seminar in Secondary Education** **2 units**
An advanced course in secondary education dealing with the problems of teaching in and administering the secondary school ; recent reports of national professional groups ; and newly developed research in this field.
Prerequisites: Graduate standing and Education 113 and 175 or their equivalents.
Two one-hour periods per week.
- 290. Master of Arts Thesis** **3 units**
Guided investigation of a problem of educational significance culminating in a formal report written in compliance with standards established by the College.
- 298. Master's Degree Seminar** **2 units**
A seminar organized to deal with the problems arising from the initiation of research by candidates for the master of arts degree. A study of procedures in educational research, types of problems amenable to experimentation, obstacles frequently encountered, and pitfalls that exist.
- 299. Special Problems** **1-2 units**
Independent graduate level research on special problems. Particularly adapted to experienced teachers. A maximum of six units may be earned in any combination of Education 299 and 199.

STUDENT TEACHING

Student teaching is one of the most important stages in the preparation of a teacher. It provides preservice experience in organizing and managing classroom situations, directing and appraising learning activities, keeping school records, and participating in the community activities of the school. Each student is urged to take Educ. 1 and Educ. 102 as additional preparation for student teaching.

The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching under the guidance of carefully selected supervising teachers and supervisors. Most of the student teaching at the elementary levels is done in the College Elementary School. Cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at this level.

All students will be expected to spend at least three hours per week throughout a semester for each unit of credit in directed teaching. A part of this time will be devoted to preparation of teaching materials and to conferences with supervisors.

This work involves professional responsibilities that must be met promptly and regularly, and students are not expected to participate in extracurricular activities or register for course work that will in any way interfere with their student teaching.

Admission to Student Teaching

1. During the semester preceding the student's registration for student teaching, he should file an application for an assignment in the office of the Coordinator of Teacher Education.

2. Applicants shall not be deemed eligible for assignment to student teaching unless they have met the stated prerequisite course requirements and have maintained satisfactorily the standards prescribed for admission to teacher education curriculums. A grade of "C" or better in each required course in Education is prerequisite to any student teaching assignment.*

*** 320. Student Teaching in the Elementary School (Special Fields) 1-4 units**

Student teaching at the elementary level for candidates for the special secondary credentials in their respective fields and for other students needing special assignments in directed teaching. Credit is allowed at the rate of one unit for three hours of participation per week. The usual assignment is for two units of credit.

Prerequisite: Education 113 and appropriate elementary methods courses, and consent of the Director.

*** 330A-330B-330C. Student Teaching in the Elementary School 5-5-5 units**

Students teach under supervision in an elementary school for one semester for the general elementary credential. Taken during the same semester, each half requiring nine weeks and carrying five units of credit.

330A—Lower Grades (Prerequisite 133A)

330B—Upper Grades (Prerequisite 133B)

330C—Advanced (Prerequisite: Consent of Coordinator of Student Teaching.)

*** 331. Student Teaching in the Kindergartens 5 units**

Students teach under supervision in the kindergarten 15 hours per week for one semester. This time is devoted to conferences, preparation of materials, and teaching.

Prerequisite: Education 131A-B, and satisfactory skill in piano.

*** 370A-370B-370C. Student Teaching in the Secondary School 3-3-3 units**

Each student is assigned to a supervising teacher in a cooperating secondary school, where he will gradually assume responsibility for two teaching assignments in his major and minor fields, together with other school activities.

Candidates for the special secondary credential in business education may register for 370A for four units.

Five hours of teaching per week for a semester, for each assignment.

Prerequisite: Education 175 and 180 or 181. (Major and minor fields.)

370C—Prerequisite: Consent of Coordinator of Student Teaching.

* See scholarship requirements, p. 73.

PSYCHOLOGY CURRICULUM**REQUIREMENTS FOR MINOR IN PSYCHOLOGY***Course numbers and titles*

Lower division Psych. 1, and 2 or 33	6 units
Upper division	6 units
Total units required	12 units

PSYCHOLOGY**Lower Division****X. Reading Study Service 1 unit**

A laboratory-workshop giving practical experience in effective methods of study and to improve reading rate and comprehension. A maximum of two units may be applied toward degree requirements.

1. General Psychology 3 units

Scientific foundations of understanding general nature of human behavior. Special treatment of fact vs. superstition, motivation, learning, emotional behavior, perception, and the thought processes with implications for individual students.

2. Applied Psychology 3 units

Survey of the areas in which the general principles of psychology are applied, such as medicine, law, advertising, salesmanship, religion, business and personal relations.

Prerequisite: Psychology 1.

Three one-hour periods per week.

33. Psychology of Adjustment 3 units

Mental hygiene and personality development particularly appropriate for college students. Foundations of behavior, adjustments to frustration, deviations from normal behavior, measurement of personality, and problems of personal adjustment will be investigated. Attempts will be made through group therapy to help students ameliorate some of their own personality difficulties.

Three one-hour periods per week.

40. Statistics 3 units

See Economics 40.

Upper Division**105. Social Psychology 3 units**

The relationship between social organizations and the normative personality attributes of the members of society. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

113. Psychological and Social Foundations of Education 5 units

See Education 113.

120. Psychology in Business and Industry 3 units

Problems of motivation and morale in business and industry. Establishing and measuring job proficiency. Psychology of the consumer.

140. Individual Differences 3 units

The origin, measurement and practical significance of individual differences in the various human traits.

- 153. Psychology of Personnel Management** **3 units**
See Business Administration 153.
- 168. The Psychology of Abnormality** **3 units**
Course deals with disordered personal reactions to life situations: their origin, symptoms and treatment. Severe maladjustments, neuroses and psychoses are considered.
- 199. Special Problems** **1-2 units**
Prerequisite: At least six units upper division psychology.

Graduate Division

Prerequisite: Graduate standing and adequate preparation in psychology.

- 212. Psychology of Adolescence** **2 units**
A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.
Two one-hour periods per week.

THE DIVISION OF FINE AND APPLIED ARTS

Art
Home Economics
Industrial Arts

Music
Speech, Drama, and
Radio-Television

Objectives

The objectives of the Division of Fine and Applied Arts are to provide:

1. An opportunity for the development of the powers and interests of the individual and a "general education" background in the field of the arts, especially for prospective teachers.
2. Curriculums leading to:
 - a. General secondary credential with majors in art, home economics, language arts, and speech, enabling the student to teach in the secondary schools of the State.
 - b. The A.B. degree with special secondary credentials in art, home economics, music, and speech correction, allowing the holder to teach the special subject in the public schools of the State.
 - c. The A.B. degree with liberal arts majors in art, home economics, music, speech, and allied arts (a group major), for the student interested in further specialized work, or for personal or vocational objectives.
 - d. A.B. degree with junior high school majors in art, home economics, industrial arts, music, speech (including drama and radio-television).
3. Minors in art, home economics, industrial arts, music, speech, drama, and radio-television.
4. Terminal courses in drafting and photography, which are vocational in character.
5. Courses for preprofessional students including partial fulfillment of the requirements for the special secondary credential in industrial education.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire division of fine and applied arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

Lower Division

Engl. 1A and Spch. 1	6 units
H. & H. 1	2 units
Literature, philosophy or the arts	6 units
(Fine and applied arts not to exceed three of the six)	
Natural sciences (see page 41)	9 units
Physical activities	2 units
Psychology 1	3 units
Social sciences (page 41)	9 units
(Including fulfillment of United States history and constitution requirement)	
Restricted electives (see page 41)	8 units
Lower division prerequisites in the three fields of the student's choice for major emphasis.	

Upper Division

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page).

Minimum upper division required..... 40 units
Total units required..... 124 units

Scholarship requirement: 1.0 average in the major in addition to the requirement of a 1.0 average in all work undertaken.

THE ART CURRICULUM**DEGREE AND CREDENTIAL REQUIREMENTS IN ART**

<i>Course Numbers and Titles</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts*</i>
	<i>Secondary</i> <i>Credential</i>	<i>Secondary</i> <i>Credential</i>	<i>(without a</i> <i>teaching</i> <i>credential)</i>
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:			
Art 2—Art History and Appreciation.....	3	3	3
Art 10—Design	3	3	3
Art 20A—Fundamentals of Drawing or			
21A—Figure Drawing	3	3	3
Art 25—Color	3	3	3
Art 27A—Water Color Painting or			
28A—Oil Painting	3	3	3
Art 40 or 41—Crafts or			
Art 48—Pottery	3	3	3
Art 45—Lettering	3	3	3
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading			
and Composition	3	3	3
H.&H. 1—Personal Health and Safety.....	2	2	2
Literature, Philosophy or Arts.....	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Science	9	9	9
(Including one physical and one biological science)			
Physical Education activities.....	2	2	2
Psych. 1—General Psychology.....	3	3	3
Social Sciences (See page 41).....	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 42)			
Spch. 1—Fundamentals of Speech.....	3	3	3
Restricted Electives	8	8	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Educ. 1—Introduction to Teaching.....	1	1	—
Completion of lower division requirements for a minor	6-20 †	—	—

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

DEGREE AND CREDENTIAL REQUIREMENTS IN ART—Continued

Course Numbers and Titles	General	Special	Liberal Arts*
	Secondary Credential	Secondary Credential	(without a teaching credential)
Upper Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 103—Advanced Appreciation	3	3	3
Upper Division Art Electives.....	3	3	15
†Art 120—Advanced Drawing or			
Art 121—Advanced Figure Drawing.....	3	3	-
Art 123—Advanced Landscape Drawing.....	3	3	-
†Art 127—Advanced Water Color or			
Art 128—Advanced Oil Painting.....	3	3	-
†Art 140—Advanced Crafts or			
Art 141—Advanced Crafts or			
Art 148A—Intermediate Pottery	3	3	..
Other Requirements:			
Educ. 113—Psychological and Social Founda- tions of Education	5	5	-
Educ. 153—Audio-Visual Education	2	2	-
Educ. 175—Core Course in Secondary Educa- tion	5	5	-
Educ. 120A—Elementary School Art.....	-	2	-
Educ. 181A—The Teaching of Art.....	2	2	-
Educ. 320A—Student Teaching—Elementary School Art	-	2	-
Educ. 370A—Student Teaching—Secondary School Art	-	3	-
Completion of upper division requirements for a minor.....	0-6‡	‡	‡
Electives to total.....	124	124	124
Total upper division required.....	40	40	40
Scholarship Requirements			
In all work taken.....	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	-	1.00
In each education course taken.....	1.00	1.00	
For admission to Graduate Division:			
In major	1.5		
In all upper division work taken.....	1.5		
Graduate Year (General Secondary Only)			
Graduate course in art.....	3		
Educ. 265—Guidance in Education	2		
Educ. 275—Seminar in Secondary Education	2		
Educ. 370A-370B—Student Teaching in the Secondary School.....	6		
Elective in secondary subject field.....	3		
Major, minor, or electives (upper division or graduate courses) to total.....	30		
Scholarship requirement (all work in graduate year)	1.75		

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† The student must study in the area not covered in his lower division course. For example, if he has taken Art 20A in the lower division, he should take Art 121 in the upper division.

‡ See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN ART

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
12 units of lower division art	6 units of lower division art	Drawing or painting— 3 units
12 units of upper division art (To be selected in consultation with the instructor)	6 units of upper division art	Plus courses approved by the art faculty— 18 units (At least 6 units must be in upper division)
Total units required 24 units	12 units	21 units

Additional requirements for the junior high school credential are given in detail on pages 74-75.

A liberal arts group major which includes art may be arranged in consultation with the student's adviser and the Registrar's office. See page 170.

DESCRIPTION OF COURSES

Lower Division

1. Art Structure 2 units

With specific exploratory problems in the visual arts, this course is designed primarily for elementary credential candidates. Art majors are not eligible.

One one-hour lecture and one two-hour activity per week.

2. Art History and Appreciation 3 units

A historical study of the development of art from prehistoric times to the Renaissance.

Three one-hour lectures per week.

3. Art Appreciation 3 units

A course in art appreciation beginning in the 18th century and extending into contemporary times. The space arts are correlated with the other arts by means of slide lectures and related reading.

Three one-hour lectures per week.

10. Design 3 units

A study of the elements of design and their applications to the commercial and fine art fields.

Two one-hour lectures and one two-hour activity period per week.

20A-20B. Fundamentals of Drawing 3-3 units

Training in the fundamentals of drawing: form, space, organization and composition. Stress is placed on various drawing materials and techniques.

Two one-hour lectures and one two-hour activity period per week.

21A-21B. Figure Drawing 3-3 units

The study of form and composition from the human figure.

Two one-hour lectures and one two-hour activity period per week.

22. Nature Drawing 1 unit

Precision drawing in varied media from objects in nature. Adapted to the needs of botany, premedical and other science students.

Two one-hour activity periods per week.

23A-23B. Landscape Drawing 3-3 units

The study of form and composition from landscape, including a study of perspective.

Two one-hour lectures and one two-hour activity period per week.

- 25. Color** **3 units**
 An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and fabric design.
 Two one-hour lectures and one two-hour activity period per week.
- 27A-27B. Water-color Painting** **2-3 units**
 The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.
 One or two one-hour lectures and one two-hour activity period per week.
- 28A-28B. Oil Painting** **2-3 units**
 The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.
 One or two one-hour lectures and one two-hour activity period per week.
- * 30. Art Anatomy** **3 units**
 Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.
 Two one-hour lectures and one two-hour activity period per week.
- 32. Sculpture** **3 units**
 The study of sculpture and methods through practical experiments by means of simple sculpture problems. Work will be executed in wood, cement, clay, plaster, and other materials.
 Two one-hour lectures and one two-hour activity period per week.
- 40. Crafts** **3 units**
 Introduction to craft processes through experimentation in paper mache, toy making, leather, bookbinding, and mobiles.
 Two one-hour lectures and one two-hour activity period per week.
- 41. Crafts** **3 units**
 Introduction to craft media and methods through problems in batik, block, printing, silk screen, stenciling, wire jewelry and enameling.
 Two one-hour lectures and one two-hour activity period per week.
- 45. Lettering** **3 units**
 Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.
 Two one-hour lectures and one two-hour activity period per week.
- 48. Pottery** **2-3 units**
 Clay preparation; pinchpot; slab and coil methods; free form; throwing, and simple molds to include one-piece poured molds; two-piece solid casting, and press molds; glazing, decoration and firing.
 One one-hour lecture and six to nine laboratory hours per week.
- 50. Elementary Photography** **3 units**
 Optical principles, chemistry of printing and developing, technique of exposure, and principle of composition. Laboratory work includes practice in dark-room techniques and field trips stressing pictorial composition.
 Two one-hour lectures and one three-hour laboratory period per week.
- 51. Advanced Photography** **2 or 3 units**
 Qualified students undertake work along various specialized lines.
 Prerequisite: Art 50 and consent of the instructor.
 Hours to be arranged.

* Given if sufficient demand.

Upper Division

103. Advanced Appreciation 3 units

A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of slide lectures, and related reading.

Two one-hour lectures and one two-hour activity period per week.

110. Advanced Design 3 units

An advanced study of the elements of design, including problems applied to pottery, textile design, painting, etc.

Prerequisite: Art 10 or consent of instructor.

Two one-hour lectures and one two-hour activity period per week.

120A-120B. Advanced Drawing 3-3 units

Continuation of the study of form and composition.

Prerequisite: One of the following courses: Art 20, 21, 23, or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

121A-121B. Advanced Figure Drawing 3-3 units

Continuation of the study of figure construction and composition.

Prerequisite: One of the following courses: Art 20, 21, 23, or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

122. Advanced Nature Drawing 1 unit

An advanced study of nature drawing.

Prerequisite: Art 20, 21, 22, 23, or consent of the instructor.

Two one-hour activity periods per week.

123A-123B. Advanced Landscape Drawing 3-3 units

Continuation of the study of landscape composition.

Prerequisite: One of the following courses: Art 20, 21, 23, or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

127A-127B. Advanced Water-color Painting 2-3 units

Advanced water color painting including problems in still-life, landscape, and figure.

Prerequisite: Art 27 or 28 or consent of instructor.

One or two one-hour lectures and one two-hour activity period per week.

128A-128B. Advanced Oil Painting 2-3 units

Advanced oil painting including problems in still-life, landscape, and figure.

Prerequisite: Art 27 or 28 or consent of the instructor.

One or two one-hour lectures and one two-hour activity period per week.

132. Advanced Sculpture 3 units

Prerequisite: Art 32 or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

140. Advanced Crafts 3 units

Prerequisite: Consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

141. Advanced Crafts 3 units

Prerequisite: Consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

145. Advanced Lettering 3 units

A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.

Prerequisites: Art 10, 20A or 21A, and 45.

Two one-hour lectures and one two-hour activity period per week.

148A. Intermediate Pottery**2-3 units**

Work in areas of concentration chosen in consultation with the instructor, including mold designing, throwing, glaze calculation, clay bodies and engobes, decoration, firing and special problems.

Prerequisite: Art 48 or consent of instructor.

Six to nine laboratory hours per week.

148B. Advanced Pottery**2-3 units**

Students may work in special fields of interest in commercial methods, creative throwing, clay bodies, to include development for various uses of the native clays, experimental firing, and glaze calculation.

Prerequisite: Art 48 and 148A, or consent of instructor.

Six to nine laboratory hours per week.

180. Art Workshop**1-3 units**

Work along individual lines, with the consent of the instructor in the field.

Three to nine hours laboratory per week.

199. Special Problems**1-3 units**

Program and hours to be arranged with staff.

Graduate Division**220. Drawing****3 units**

Advanced study of individual problems in drawing.

Two one-hour lectures and one two-hour activity period per week.

227. Painting**3 units**

The student will work in the paint medium of his own choosing, under the supervision and criticism of the instructor.

Two one-hour lectures and one two-hour activity period per week.

241. Crafts**3 units**

Individual study of problems in various craft media.

Two one-hour lectures and one two-hour activity period per week.

245. Lettering**3 units**

Special problems in lettering layout and advertising design.

Two one-hour lectures and one two-hour activity period per week.

248. Pottery**2-3 units**

Individual study of problems in pottery.

Hours to be arranged.

299. Special Problems**3 units**

Hours to be arranged.

THE HOME ECONOMICS CURRICULUM

DEGREE AND CREDENTIAL REQUIREMENTS IN HOME ECONOMICS

Course Numbers and Titles	General	Special	Liberal arts *
	Secondary Credential	Secondary Credential	(without a teaching credential)
Lower Division			
Major:	Units	Units	Units
H.Ec. 1A-1B—Clothing Construction	6	6	6
H.Ec. 7—Textile Selection	2	2	—
H.Ec. 10A-10B—Food Preparation	6	6	6
H.Ec. 20—General Nutrition	2	2	—
General Education: (To be fulfilled in addition to all requirements for the major)			
Art 1—Art Structure	2	2	—
Art 10—Design	3	3	—
Art 25—Color	3	3	—
Engl. 1A—First-year Reading and Composition	3	3	3
H&H. 1—Personal Health and Safety	2	2	2
H&H. 50—Home Nursing	2	2	—
Literature or Philosophy	3	3	6 †
Natural Sciences:			
Physiol. 1—Elementary Human Physiology			
Lecture	3	3	—
Chem. 2A-2B—Introduction to Chemistry	6	6	3
Electives in science (including one course in biological science)	—	—	6
Physical Education Activities	2	2	2
Psych. 1—General Psychology	3	3	3
Social Sciences	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 42.)			
Spch. 1—Fundamentals of Speech	3	3	3
Restricted Electives	1	1	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Educ. 1—Introduction to Teaching	1	1	—
Bact. 1—General Bacteriology Lecture	3	3	—
Completion of lower division requirements for a minor	6-20 ‡	‡	‡

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† May include three units in fine or applied arts.

‡ See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

DEGREE AND CREDENTIAL REQUIREMENTS IN HOME ECONOMICS—Continued

Course Numbers and Titles	General	Special	Liberal Arts *
	Secondary Credential	Secondary Credential	(without a teaching credential)
Major:	Upper Division		
	Units	Units	Units
H.Ec. 101—Advanced Clothing and Design-----	3	3	—
H.Ec. 130—Home Management-----	3	3	—
H.Ec. 150—Child Care and Training-----	2	2	—
Foods and Nutrition Chosen from:			
H.Ec. 111—Advanced Meal Planning and Serving	4	4	—
H.Ec. 120—Dietetics			
H.Ec. 199—Special Problems in Foods or Nutrition			
Home Economics Electives (upper division)-----	9	9	18
Other Requirements:			
Education 113—Psychological and Social Founda- tions of Education-----	5	5	—
Educ. 153—Audio-Visual Education-----	2	2	—
Educ. 175—Core Course in Secondary Education--	5	5	—
Educ. 181 H.Ec.—The Teaching of Home Eco- nomics-----	2	2	—
Educ. 320 H.Ec.—Student Teaching—Elementary School Home Economics-----	—	2	—
Educ. 370A—Student Teaching—Secondary School Home Economics-----	—	3	—
Soc. 160—The Family-----	3	3	—
Completion of upper division requirements for a minor-----	0-6†	†	†
Electives to total-----	124	124	124
Total upper division required-----	40	40	40
Scholarship Requirements:			
In all work taken-----	1.00	1.00	1.00
In major-----	1.00	1.00	1.00
In minor-----	1.00	—	—
In each education course taken-----	1.00	1.00	—
For admission to Graduate Division:			
In major-----	1.5	—	—
In all upper division work taken-----	1.5	—	—
Graduate Year (General Secondary Only)			Units
Home Economics elective (upper division or graduate)-----			3
Educ. 265—Guidance in Education-----			2
Educ. 275—Seminar in Secondary Education-----			2
Educ. 370A-370B—Student Teaching in the Secondary School-----			6
Elective in secondary subject field-----			3
Major, minor, or electives (upper division or graduate courses) to total-----			30
Scholarship requirement (all work taken in graduate year)-----			1.75

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN
HOME ECONOMICS

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
	Lower Division	
H.Ec. 1A----- 3 units	H.Ec. 1A----- 3 units	A minimum of 20 units in courses approved by the home economics faculty.
H.Ec. 7----- 2 units	H.Ec. 7----- 2 units	
H.Ec. 10A-10B 6 units	H.Ec. 11----- 2 units	
H.Ec. 11----- 2 units	H.Ec. 20----- 2 units	
H.Ec. 20----- 2 units		
	Upper Division	
12 units chosen from :	9 units chosen from :	
H.Ec. 101A_ 3 units	H.Ec. 101A_ 3 units	
H.Ec. 130__ 3 units	H.Ec. 130__ 3 units	
H.Ec. 140__ 3 units	H.Ec. 140__ 3 units	
H.Ec. 150__ 2 units	H.Ec. 150__ 2 units	
Soc. 160____ 3 units	Soc. 160____ 3 units	
H.Ec. 165__ 3 units	H.Ec. 165__ 3 units	
Total units required -----27 units	18 units	20 units

Additional requirements for the junior high school credential are given in detail on pages 74-75.

A liberal arts group major which includes home economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 170.

DESCRIPTION OF COURSES**Lower Division****1A-1B. Clothing Construction (year) 3-3 units**

Emphasis on needed garments in wardrobe; development of good techniques in clothing construction processes; use of cotton, linen, and rayon fabrics; simple original design in cotton material. One one-hour lecture; two three-hour laboratories weekly. 1A not prerequisite to 1B. Open to all.

3. Home Economics for Marriage 2 units

An omnibus course; open to all. Buymanship preparation for: the engaged girl, the bride, the career girl and inexperienced homemaker. Brief consumer buymanship for trousseau; capsule wardrobe for career girl and homemaker; textile buying; brief meal planning; major home furnishings, house planning and family nutrition.

Two one-hour lecture periods per week.

5. Home Crafts and Weaving 2 units

Early American stenciling of tinware and chairs of Hitchcock type, etc.; lampshades and refinishing of simple pieces in wood; simple weaving, and creating useful and artistic items for the home.

One one-hour lecture and two one-hour activity periods per week.

7. Textile Selection 2 units

Emphasis on the newer fibers: their characteristics and blending qualities. Consumer problems in textile selection of clothing and household fabrics. Identification of the major fibers; simple laboratory test; the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Preparation (year) 3-3 units

First semester: The composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 2A (may be taken concurrently) or, consent of the instructor.

One one-hour lecture and two three-hour laboratory periods per week.

- 11. Meal Planning and Service** **2 units**
 Open to all students interested in food selection and preparation. Simple meals prepared and served.
 One section for men, one section for women if sufficient demand.
 One one-hour lecture and one three-hour laboratory period per week.

- 20. General Nutrition Lecture** **2 units**
 A study of nutrition with emphasis on human requirements and best selection of foods for individuals and families.
 Two one-hour periods per week.

- 21. General Nutrition Laboratory** **1 unit**
 Problems in planning diets for special groups. Required for prenursing students.
 One three-hour laboratory period per week.

Upper Division

- 101. Advanced Clothing and Design** **3 units**
 Professional tailoring on home-made suits and coats; perfecting of sewing skills and techniques; time saving devices.
 One one-hour lecture and two three-hour laboratory periods per week.
 Prerequisite: Home Economics 1A-1B or approval of instructor.

- 102. Children's Clothing** **2-3 units**
 Selection and construction of children's clothing. Evaluation of garments in terms of cost, function, and care.
 One one-hour lecture and one or two two-hour activity periods per week.

- 103. Costume Design** **2-3 units**
 History of costume design. Problems in design and practical laboratory work on costumes for current theatre productions.
 One one-hour lecture and one or two three-hour laboratory periods per week.

- 111. Advanced Meal Planning and Serving** **2 units**
 One one-hour lecture and one three-hour laboratory period per week.
 Prerequisite: Upper division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

- 120. Dietetics** **3 units**
 The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.
 Prerequisite: H.E. 10A-10B and 20.
 Two one-hour lectures and one three-hour laboratory period per week.

- 130. Home Management** **3 units**
 Managing money, time and energy in relation to goals of family living.
 Three one-hour periods per week.

- 140. Housing and Home Furnishings** **3 units**
 The house, its furnishings, interior decoration and arrangement, to satisfy varied family needs and interests.
 Prerequisite: Art 1 and 10.
 Three one-hour periods per week.

- 150. Child Care and Training** **2 units**
 Growth, development and care of the infant and preschool child.
 Two one-hour periods per week.

- 165. Consumer Buying** **3 units**
 Special problems in personal and family finances involving the evaluation of home production and consumption of goods and services.
 Three one-hour periods per week.

- 199. Special Problems** **1-3 units**
 A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person must have approval of the home economics staff.

THE INDUSTRIAL ARTS CURRICULUM**SUGGESTED PROGRAM FOR INDUSTRIAL ARTS**

A group major leading to the A.B. degree with a concentration in industrial arts may be arranged in consultation with the student's adviser and the Registrar.

<i>Course numbers and titles</i>	<i>Pre-special* secondary credential</i>
Lower Division	
Art 1—Art Structure.....	2
Art 10—Design.....	3
Art 45—Lettering.....	3
Art 50—Elementary Photography.....	3
Engl. 1A—First-year Reading and Composition.....	3
Engr. 22—Engineering Drawing.....	2
I.A. 60—Machine Shop.....	3
H. & H. 1—Personal Health and Safety.....	2
Art 48—Pottery.....	3
I.A. 7A—Mechanical Drawing.....	2
I.A. 12—Art Metal.....	2
Phys. 71—Introduction to Radio.....	3
I.A. 35—Organization of the General Shop.....	2
Chem. 1A—General College Chemistry.....	5
Nat. Sci.—Electives.....	7
P.E. Activities (including P.E. 5).....	2
Psych. 1—General Psychology.....	3
Hist. 70—History of the United States.....	2
Pol. Sci. 51—American Constitutional Government.....	2
Soc. Sci. Electives.....	5
Speech 1—Fundamentals of Speech.....	3
Upper Division	
Educ. 113—Psychological and Social Foundations of Education.....	5
Educ. 175—Core Course in Secondary Education.....	5
Educ. 120 I.A.—Methods in Industrial Arts for Elementary Teachers.....	2

JUNIOR HIGH SCHOOL CREDENTIAL REQUIREMENTS IN INDUSTRIAL ARTS †

Lower Division	
‡ I.A. 7A—Mechanical Drawing.....	2 units
I.A. 35—Organization of the General Shop.....	2 units
One course in woodwork.....	2 or 3 units
One course in metal work.....	2 or 3 units
Additional lower division I.A.....	2 or 4 units
Upper Division	
Educ. 181 I.A.—The Teaching of Industrial Arts.....	2 units
Additional upper division I.A.....	10 units
Total units required.....	24 units

* From two to three years' work for this credential may be taken in this college; the remainder of the program must be taken in an institution authorized to issue this credential. The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for this credential.

† Engr. 22 may be elected instead of I.A. 7A if the student has had one or more years of high school mechanical drawing.

‡ I.A. 7A may be waived if the student has had one year of high school mechanical drawing.

CREDENTIAL REQUIREMENTS FOR MINOR IN INDUSTRIAL ARTS *

*General Elementary or
Junior High School**General Secondary*

Lower Division			
‡ I.A. 7A-----	2 units	‡ I.A. 7A-----	2 units
I.A. 35-----	2 units	I.A. 35-----	2 units
Electives in Industrial Arts--	2 units	One course in woodwork--	2 or 3 units
		One course in metalwork--	2 or 3 units
		Electives in Industrial	
		Arts -----	4 or 6 units
Upper Division			
Electives in Industrial Arts--	6 units	Electives in Industrial Arts--	6 units
Total units required-----	12 units	Total units required-----	20 units

DESCRIPTION OF COURSES**Lower Division****1. Fundamentals of Woodworking 3 units**

Designed to develop a certain amount of skill in the use of the common hand tools of this area. The history of hand tools and the lumber industry and the persons who take part in it will be stressed.

One hour lecture and three two-hour laboratory periods per week.

2. Wood Turning 2 units

Opportunity for the student to concentrate on developing skill in the use of the lathe. Work in spindle, faceplate, spiral and chuck turning in practical and artistic projects.

Three two-hour laboratory periods per week.

7A. Mechanical Drawing 2 units

The fundamentals of mechanical drawing which cover orthographic, isometric, and cabinet projections; intersections of solids, sections, screws, cams, blue prints, etc.

Three two-hour laboratory periods per week.

10. Home Planning 2 units

The planning of a home. All phases of the location, orientation, structural details, built-ins, heating, lighting, plumbing and disposal units will be considered. A scaled model will be built as a class project.

One hour lecture and one three-hour laboratory period per week.

11. General Metals 3 units

The basic skills in the working with sheet metal, wrought iron, casting, spinning and machining. Operations in each area will include: layout of patterns, methods of cutting, joining, and finishing.

Prerequisite: I.A. 7A.

One hour lecture and two three-hour laboratory periods per week.

12. Art Metal 2 units

Covers experience in the designing and artistic reproduction of articles of copper, brass, aluminum and other of the new alloys applicable to such work. The operations involve: piercing, peening, etching, chasing, tooling, spinning, repousse, overlaying and finishing.

One hour lecture and one three-hour laboratory period per week.

* Additional requirements for the junior high school credential are given in detail on pages 74-75. A total of 24 units in industrial arts with at least 12 units in upper division courses is required.

† Engr. 22 may be elected instead of I.A. 7A if the student has had one or more years of high school mechanical drawing.

‡ I.A. 7A may be waived if the student has had one year of high school mechanical drawing.

17. Plastics **2 units**

Designed to develop a certain amount of skill in laminating, forming, carving, decorating and coloring of this new medium. Many of the operations are common to other media but their application presents many new possibilities.

One one-hour lecture and three one-hour laboratory periods per week.

18. Jewelry and Lapidary **2 units**

The making of flat jewelry and investment castings of mountings from precious and semiprecious metals and the cutting, shaping, polishing and setting of gem materials commonly found in this area.

One hour lecture and one three-hour laboratory period per week.

35. Organization of the General Shop **2 units**

Intended to acquaint prospective teachers with the possibilities of teaching in a general shop situation. Skills and knowledge from unit background courses are combined into form suitable for teaching the same materials in general shops.

Two one-hour lecture periods per week.

60. Machine Shop **3 units**

Fundamental hand and machine tool operations; plain and taper turning; thread cutting; shaping; grinding; and care of tools and machines.

Prerequisite: I.A. 7A.

One hour lecture and two three-hour laboratory periods per week.

Upper Division

121. Furniture Construction **3 units**

The design and construction of solid and upholstered furniture. Emphasis is given to period and modern types with a view toward the selection, designing and building of a suitable project to be built as a part of the laboratory work.

Prerequisite: I.A. 1 and 7A.

One hour lecture and two three-hour laboratory periods per week.

123. Pattern Making and the Theory of Foundry Practice **2 units**

The basic processes involved in these two kindred areas. Patterns will be made and casting will be done in the softer metals such as lead, aluminum and other soft alloy metals.

Prerequisite: I.A. 11.

Two three-hour laboratory periods per week.

124. Cabinet Making **3 units**

Intended to meet the needs of the student who wishes to concentrate in this area. Opportunity will be given to design and build a complete set of built-ins for a home or place of business.

Prerequisite: I.A. 1 and 7A, or consent of instructor.

One hour lecture and three two-hour laboratory periods per week.

130. Industrial Arts Design **2 units**

For industrial education majors and minors and offers the theory and opportunity to practice the basic principles of design in the development of plans for projects in the various media in the field. (Open only to students majoring or minoring in industrial education.)

Two one-hour lecture periods per week.

160. History and Philosophy of Industrial Education **2 units**

Affords opportunity to become acquainted with the persons and ideas influencing the thinking, content and method of the present day industrial arts program.

Two one-hour lecture periods per week.

199. Special Problems **1-3 units**

THE MUSIC CURRICULUM

DEGREE AND CREDENTIAL REQUIREMENTS IN MUSIC

Course numbers and Titles	General	Special	Liberal Arts *
	Secondary Credential	Secondary Credential	(Without a teaching Credential)
Lower Division			
Major:	Units	Units	Units
Mus. 1—Music Survey -----	2	2	2
Mus. 20A-20B—Theory -----	6	6	6
Mus. 21A-21B—Theory -----	6	6	6
Mus. 41—Instrumental Conducting -----	2	2	—
Mus. 46—Choral Conducting -----	2	2	—
Mus. 71—Strings -----	1	1	—
Mus. 72—Brasses -----	1	1	—
Mus. 73—Woodwinds -----	1	1	—
Mus. 77—Percussion -----	1	1	—
Applied Music -----	4	4	4
Music Activities -----	2	2	2
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Com- position -----	3	3	3
H.&H. 1—Personal Health and Safety -----	2	2	2
Literature, Philosophy or Arts ----- (Fine and applied arts not to exceed three of the six)	6	6	6
Natural Science ----- (Including one physical and one biological science)	9	9	9
Physical Education Activities -----	2	2	2
Psych. 1—General Psychology -----	3	3	3
Social Sciences (See page 41.) ----- (Including fulfillment of requirement in United States history and Constitution. See page 42.)	9	9	9
Spch. 1—Fundamentals of speech -----	3	3	3
Restricted Electives ----- (Chosen from the above General Education fields or from mathematics, family life edu- cation, or not more than six units of foreign language)	8	8	8
Other Requirements:			
Educ. 1—Introduction to Teaching -----	1	1	—
Completion of lower division requirements for a minor -----	6-20 †	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

DEGREE AND CREDENTIAL REQUIREMENTS IN MUSIC—Continued

Course Numbers and Titles	General	Special	Liberal Arts
	Secondary	Secondary	(Without a teaching Credential)
	Credential	Credential	Credential
Upper Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 101-102—Music History	4	4	4
Mus. 120A—Advanced Harmony	3	3	3
Mus. 123—Counterpoint	3	3	3
Mus. 124—Form and Analysis	2	2	2
Mus. 125—Composition	2	2	2
Mus. 131—Instrumental Arranging	2	2	—
Applied Music	4	4	2
Music Activities	2	2	2
Electives—Upper Division Music	—	—	6
Other Requirements:			
Educ. 113—Psychological and Social Foundations of Education	5	5	—
Educ. 153—Audio-Visual Education	2	2	—
Educ. 175—Core Course in Secondary Education	5	5	—
Educ. 120M—Elementary School Music	—	2	—
Educ. 181M—The Teaching of Music	2	2	—
Educ. 320M—Student Teaching—Elementary School Music	—	2	—
Educ. 370A—Student Teaching—Secondary School Music	—	3	—
Completion of upper division requirements for a minor	0-6	*	*
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements:			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	—	—
In each education course taken	1.00	1.00	—
For admission to Graduate Division:			
In major	1.5	—	—
In all upper division work taken	1.5	—	—
Graduate Year (General Secondary Credential Only)			<i>Units</i>
Music 299—Special Problems	—	—	3
Educ. 265—Guidance in Education	—	—	2
Educ. 275—Seminar in Secondary Education	—	—	2
Educ. 370A-370B—Student Teaching in the Secondary School	—	—	6
Elective in secondary subject field	—	—	3
Major or minor or electives (upper division or graduate courses) to total at least	—	—	30
Scholarship requirement (all work in graduate year)	—	—	1.75

* See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

PERFORMANCE TESTS

In addition to the subject and scholarship requirements listed above, the State Department of Education has prescribed the following standards of performance which must be met by candidates for the general and the special secondary credentials:

- I. **PIANO:** Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. **VOICE:** Ability to sing at least one song representative of each of the following periods of vocal literature:

Classical period

Romantic period

Modern period

Ability to sing at sight any part of a four-part hymn.

- III. **CONDUCTING:** Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

CREDENTIAL AND MINOR REQUIREMENTS IN MUSIC

<i>Junior High School Major in Music</i>	<i>Minor in Music</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division		
Music 1 ----- 2 units	Music 1 ----- 2 units	Music 3-4 ----- 6 units
Music 20A-20B 6 units	Music 10 ----- 3 units	Music 10 ----- 3 units
Music 21A --- 3 units	Music activities 3 units	Music 46 ----- 2 units
Music 41 ----- 2 units		Music 60 or 65 1 unit
Music 46 ----- 2 units		Applied music--- 2 units
Music 71-72 -- 2 units		
Music 73-77 -- 2 units		
Applied Music - 2 units		
Music Activities 1 unit		
Upper Division		
Music 101-102 _ 4 units	Music activities 2 units	Electives
Music 190 ----- 2 units	Electives	approved by
Music activities 3 units	approved by	music faculty 6 units
Applied music - 3 units	music faculty 4 units	
Total units		
required --- 34 units	14 units	20 units

A liberal arts group major which includes music may be arranged in consultation with the student's adviser and the Registrar's office. See page 170.

Additional requirements for the junior high school credential are given in details on pages 74-75.

DESCRIPTION OF COURSES**Lower Division**

1. Music Survey 2 units

An introductory survey of the history of music designed chiefly to orient the beginning music student in his field of study.

One one-hour lecture and two one-hour activity periods per week.

- 3-4. Music Appreciation (year) 3-3 units

For non-music majors wishing to know more about music as a part of their general education.

Three one-hour periods per week.

- 10. Musicianship** **3 units**
Elementary work in ear training, sight singing and piano keyboard for the teaching credential candidate and the general student.
Prerequisite: Music 76A or equivalent. Prerequisite for Educ. 120M.
Three one-hour periods per week.
- 20A-20B. Theory (year)** **3-3 units**
Fall: Gregorian melody and modal counterpoint.
Spring: Modal counterpoint and elementary harmony.
Music fundamentals, sight singing, ear training, keyboard harmony, musical analysis, imitative and creative writing throughout the year.
Two one-hour lectures and three one-hour laboratory periods per week.
- 21A-21B. Theory (year)** **3-3 units**
Music fundamentals; sight singing, ear training, keyboard harmony, imitative and creative writing, musical analysis. Baroque harmony emphasized.
Three one-hour periods per week.
- 41. Instrumental Conducting** **2 units**
Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
Two one-hour periods per week.
- 46. Choral Conducting** **2 units**
Same as Music 41 but applied to choral singing.
Two one-hour periods per week.
- 70A-70B. Beginning Piano** **1-1 unit**
Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.
One one-hour period per week, with outside practice required.
- 70C-70D. Intermediate Piano** **1-1 unit**
Class instruction open to any student who has had the equivalent of Music 70A-B.
One one-hour period per week, with outside practice required.
- 71. Strings** **1 unit**
Class instruction in stringed instruments for the music credential candidate and the general student.
Two one-hour activity periods per week.
- 72. Brasses** **1 unit**
Class instruction in brass instruments for the music credential candidate and the general student.
Two one-hour activity periods per week.
- 73. Woodwinds** **1 unit**
Class instruction in woodwind instruments for the music credential candidate and the general student.
Two one-hour activity periods per week.
- 74A-74B. Beginning Organ** **1-1 unit**
Class instruction in organ.
One one-hour period per week.
- 74C-74D. Intermediate Organ** **1-1 unit**
Class instruction in organ; open to any student who has had the equivalent of Music 74B.
One one-hour period per week.
- 75A-75B. Beginning Violin** **1-1 unit**
Class instruction open to any student who has a desire to learn to play the violin.
One one-hour period per week, with outside practice required.

75C-75D. Intermediate Strings 1-1 unit

Class instruction in strings open to any student who has had the equivalent of Music 75B.

One one-hour period per week, with outside practice required.

76A-76B. Beginning Voice 1-1 unit

Class instruction open to any student wishing to learn the fundamentals of singing. No previous voice training needed.

One one-hour period per week, with outside practice required.

76C-76D. Intermediate Voice 1-1 unit

Class instruction open to any student who has had the equivalent of Music 76A-76B.

One one-hour period per week, with outside practice required.

77. Percussion 1 unit

Class instruction in percussion instruments for the music credential candidate and the general student.

Two one-hour activity periods per week.

***78. Keyboard Improvisation** 1 unit

Practical keyboard harmony with emphasis on contemporary jazz techniques; harmonization of folk song-type literature.

One one-hour period per week with outside practice required.

90. The Teaching of Piano 2 units

Study and practice of methods and materials in the teaching of class and private piano.

One hour lecture and two one-hour activity periods per week.

Upper Division**101-102. Music History (year)** 2-2 units

The critical study of music as an artistic, historical and socio-economic aspect of western civilization. For music and history majors.

Prerequisite: Music 1 or consent of instructor.

One one-hour lecture and two one-hour activity periods per week.

120A. Advanced Harmony 3 units

Essentials of advanced harmony: chromatic alteration, modulation by means of altered chords, use of all non-chord tones, keyboard work.

Prerequisite: Music 20A-20B.

Three one-hour periods per week.

123. Counterpoint 3 units

Strict counterpoint in all species; two, three, and four-part writing.

Prerequisite: Music 120A.

Three one-hour periods per week.

124. Form and Analysis 2 units

Review of simple forms and study of complex forms.

Prerequisite: Music 123.

Two one-hour periods per week.

125. Composition 2 units

The simple and more developed binary and ternary song forms for piano, voice, and small ensemble.

Prerequisite: Music 123.

Two one-hour periods per week.

131. Instrumental Arranging 2 units

A practical course in arranging music for various combinations of instruments, with special reference to school orchestras and bands. To be taken in senior year.

Prerequisite: consent of the instructor.

Two one-hour periods per week.

* Given if sufficient demand.

170A-170B. Advanced Piano**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 70C-70D.

174A-174B. Advanced Organ**1 unit**

Class instruction in organ; open to any student who has had the equivalent of Music 74D.

One one-hour period per week.

175A-175B. Advanced Violin**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 75C-75D.

One one-hour period per week, with outside practice required.

176A-176B. Advanced Voice**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 76C-76D.

199. Special Problems**1-3 units**

Methods of research and projects in the field of music and music teaching.

Prerequisite: Consent of music staff.

Graduate Division**299. Special Problems****3 units**

Research in the field of music and music teaching.

Prerequisite: Music 199 and consent of music staff.

Musical Organizations**50-150. Orchestra****1 unit**

Study and performance of orchestral literature.

Prerequisite: Consent of instructor on basis of auditions. May be taken as a non-credit activity.

51-151. Band**1 unit**

This organization provides music for athletic events, assemblies, and other campus activities.

May be taken as a non-credit activity.

Two one-and-one-half-hour periods per week.

58-158. Piano Ensemble **$\frac{1}{2}$ unit**

Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.

Two one-hour periods per week.

59-159. Chamber Ensemble **$\frac{1}{2}$ unit**

Study and performance of chamber music of all periods. Class will include duo-piano and small instrumental ensembles.

Prerequisite: Consent of instructor.

Two one-hour periods per week.

60-160. College Chorus **$\frac{1}{2}$ unit**

Open to any member of the student body without try-outs.

May be taken as a non-credit activity.

Two one-hour periods per week.

65-165. A Cappella Choir (year)**1-1 unit**

A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present.

May be taken as a non-credit activity.

Prerequisite: Consent of instructor on the basis of auditions.

Four hours per week.

Madrigal Singers**no credit**

Prerequisite: Consent of instructor on the basis of auditions.

Applied Music

Private lessons will be given on the basis of one half-hour lesson per week for a fee of \$3 per lesson. Prerequisite: Consent of instructor. (Class lessons in each of these fields are covered by regular tuition, without extra charge.)

80-180. Private Lessons—Piano	1 unit
Mr. Fulkerson, Mr. Mearns.	
81-181. Private Lessons—Strings	1 unit
Mr. Glende.	
82-182. Private Lessons—Brass	1 unit
Mr. Johnsen.	
83-183. Private Lessons—Woodwinds	1 unit
Staff.	
84-184. Private Lessons—Organ	1 unit
Mr. Mearns.	
86-186. Private Lessons—Voice	1 unit
Mr. Barlow.	

THE SPEECH CURRICULUM

DEGREE AND CREDENTIAL REQUIREMENTS IN SPEECH

Course Numbers and Titles	Speech	Liberal Arts *		
	(General	Speech- English	Radio- Speech	Speech- Dra- matics
	Secondary Creden- tial)			
Lower Division				
Major:	Units	Units	Units	Units
Spch. 2—Oral Interpretation	3	3	—	3
Spch. 3—Public Speaking	3	3	—	3
Spch. 7—Radio-Television Speech	—	—	3	—
Spch. 10—Survey of Radio and Television	—	—	3	—
Spch. 11—Radio Workshop	—	—	2	—
Spch. 12—Radio-Television Writing	—	—	3	—
Spch. 20—Technique of Acting	2	2	—	2
Spch. 21—Elementary Stagecraft	3	3	—	3
Lower Division—Elective in Speech	1	—	—	—
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A—First-year Reading and Composition	3	3	3	3
H.&H. 1—Personal Health and Safety	2	2	2	2
Literature, Philosophy or Arts	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Science	9	9	9	9
(Including one physical and one biological science)				
Physical Education Activities	2	2	2	2
Psych. 1—General Psychology	3	3	3	3
Social Sciences (See page 41)	9	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 42.)				
Spch. 1—Fundamentals of Speech	3	3	3	3
Restricted Electives	8	8	8	8
(Chosen from the above General Education fields or from mathematics, family life edu- cation, or not more than six units of foreign languages.)				
Other Requirements:				
Jn. 20—Newsriting	—	—	3	—
B.A. 2A—Typing (or equivalent skill)	—	—	0-2	—
B.A. 50—Salesmanship	—	—	3	—
Phys. 71—Introduction to Radio	—	—	3	—
Educ. 1—Introduction to Teaching	1	—	—	—
Completion of lower division requirements for a minor	6-20 †	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 41-42. Part of the work for a teaching minor may be completed in the graduate year.

DEGREE AND CREDENTIAL REQUIREMENTS IN SPEECH—Continued

Course Numbers and Titles	Speech (General Secondary Creden- tial)	Liberal Arts *		
	Speech- English	Radio- Speech (without a teaching credential)	Speech- Dra- matics	
Upper Division				
Major:	Units	Units	Units	Units
Spch. 111—Adv. Radio Workshop	—	—	3	—
Spch. 113—Radio Production Directing	—	—	3	—
Spch. 114—Radio Sales and Commercial Operation	—	—	3	—
Spch. 115—Field Training in Radio and Television	—	—	2-4	—
Spch. 126—Play Production	3	3	—	3
Spch. 127—Play Production	3	3	—	3
Spch. 140—Survey of the Drama	3	3	—	3
Spch. 170—Phonetics	3	3	—	3
Spch. 180—Speech Correction	2	—	—	—
Spch. 182—Clinical Practice	1	—	—	—
Electives in Upper Division Speech chosen from:				
Spch. 102—Advanced Oral Interpretation	3	—	6-8	7
Spch. 103—Advanced Public Speaking				
Spch. 106—Advanced Public Discussion and Parliamentary Procedure				
Spch. 110—Survey of Broadcasting				
Spch. 111—Advanced Radio Workshop				
Spch. 125—Dramatic Workshop				
Spch. 130—Playwriting				
Spch. 170—Phonetics				
H.Ec. 103—Costume Design				
Engl. 136A or 136B—American Literature	—	3 or	—	—
Engl. 162—Shakespeare	—	(3)	—	—
Electives in Speech or	—	—	—	—
English	6	9	5	5
Total required in the major (Upper Division)	(24)	(24)	(24)	(24)
Other Requirements:				
Educ. 113—Psychological and Social Founda- tions of Education	5	—	—	—
Educ. 153—Audio-Visual Education	2	—	—	—
Educ. 175—Core Course in Secondary Education	5	—	—	—
Educ. 181Sp—The Teaching of Speech	2	—	—	—
Completion of upper division requirements for a minor	0-6 †	—	—	—
Electives to total	124	124	124	124
Total upper division required	40	40	40	40
Scholarship Requirements:				
In all work taken	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00
In minor	1.00	—	—	—
In each education course taken	1.00	—	—	—
For admission to Graduate Division:				
In major	1.5	—	—	—
In all upper division work taken	1.5	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 41-42. Part of the work for a teaching minor may be completed in the graduate year.

DEGREE AND CREDENTIAL REQUIREMENTS IN SPEECH—Continued

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Electives in speech (graduate or upper division courses)	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 370A-370B—Student Teaching in the Secondary School	6
Elective in secondary subject field	3
Major or minor or electives (upper division or graduate courses) to total	30
Scholarship requirement (all work in graduate year)	1.75

CREDENTIAL REQUIREMENTS IN SPEECH CORRECTION

Holders of general elementary or general secondary credentials who have taught successfully for two years (or who have completed at least four units of student teaching) and who have the necessary personal characteristics for work with handicapped children may qualify for the special secondary credential in speech correction by completing the courses indicated below:

Lower Division

	<i>Units</i>
Spch. 1—Fundamentals of Speech	3
Spch. 2—Oral Interpretation	3

Upper Division

Spch. 170—Phonetics	3
Spch. 180—Speech Correction	2
Spch. 181—Advanced Speech Correction	2
Spch. 182 or Spch. 183—Clinical Practice	2
Educ. 320Sp—Student Teaching in the Elementary School (Special Field of Speech Correction)	2

GENERAL SECONDARY CREDENTIAL WITH MAJOR IN LANGUAGE ARTS

Details of this program are given on pages 127-129 of this catalog under the Division of Language and Literature.

CREDENTIAL AND MINOR REQUIREMENTS IN SPEECH

Course Numbers and Titles	Minor for A.B. Degree		General Secondary Minor		Junior High Cre- dential Major
	Radio	Speech Drama	Speech		
Lower Division					
Speech 1—Fundamentals of Speech	Units 3	Units 3	Units 3	Units 3	
Speech 2—Oral Interpretation	—	—	3	3	
Speech 3—Public Speaking	—	3	—	3	
Speech 7—Radio-Television Speech	3	—	—	—	
Lower Division Electives	—	—	Maximum of 8 3		

CREDENTIAL AND MINOR REQUIREMENTS IN SPEECH—Continued

Course Numbers and Titles	Minor for A.B. Degree		General Secondary Minor		Junior High Cre- dential Major
	Radio	Speech Drama	Speech		
Upper Division					
Speech 111—Adv. Radio Workshop_____	3	—	—	—	
Speech 113—Radio Production _____	3	—	—	—	
Spch. 126—Play Production _____	—	—	—	3	
Spch. 127—Play Production _____	—	—	—	3	
Spch. 180—Speech Correction _____	—	—	—	2	
Spch. 182—Speech Correction Clinical Practice _____	—	—	—	1	
Spch. 191—Speech and Drama in the Elementary and Junior High School__	—	—	—	3	
Upper Division Electives_____	—	6	Minimum of 6	3	
Total Units Required_____	12	12	20	27	

DESCRIPTION OF COURSES

Lower Division

X. Speech Clinic

½-1 unit

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment. A maximum of two units may be applied toward degree requirements.

One or two one-hour periods per week.

1. Fundamentals of Speech

3 units

An introductory course in speech involving the study of voice control, delivery techniques, speech composition, and speeches, listening techniques.

Prerequisite: English 1A, except for speech majors.

Three one-hour periods per week.

2. Oral Interpretation

3 units

Principles of oral interpretation; practice in reading prose and poetry.

Prerequisite: Speech 1.

Three one-hour periods per week.

3. Public Speaking

3 units

Speech planning and delivery to develop self-confidence and poise through oral expression and to awaken interest in the problems of the modern world. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 1.

Three one-hour periods per week.

5. Forensics Workshop

1 unit

Preparation and practice for participation in intramural and intercollegiate forensics. A maximum of four units of degree credit is allowed for this course.

Two one-hour activity periods per week.

6. Public Discussion and Parliamentary Procedure

2 units

Techniques of group discussion including the conference, panel, and symposium forms; the study of parliamentary law. Primarily for lower division class officers and members of the Student Council.

One one-hour lecture, one two-hour activity per week.

7. Radio-Television Speech

3 units

Radio and television announcing-acting with particular stress on microphone techniques, articulation, and various types of vocal delivery.

Three one-hour periods per week.

10. Survey of Radio and Television

3 units

The history of broadcasting; government regulations; station and network organization; method and types of broadcasting and production; public service responsibilities; and recent trends and the future of radio and television.

Three one-hour periods per week.

11. Radio Workshop

1-2 units

The emphasis is upon the production of radio programs presented on the campus training station and programs released over the local radio stations in Eureka. Course work includes training in related skills such as writing, directing, producing, and broadcasting radio programs.

One or two three-hour laboratory periods per week.

A maximum of four units degree credit is allowed for this course.

12. Radio-Television Writing

3 units

Analytical study of radio and television talks, scripts, continuity forms, commercial announcements, talks, and special event programs. Format, content, music, and sound effect techniques of radio and television scripts.

Three one-hour periods per week.

20. Technique of Acting

2 units

Embraces the basic principles of dramatic art. It teaches the fundamentals of pantomime, impersonation, and oral expression and acting. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self confidence.

Two two-hour periods per week.

21. Elementary Stagecraft

3 units

Scene construction and painting; introduction to stage lighting.

Two one-hour lectures and one three-hour laboratory period per week.

22. Stage Make-up

1 unit

Theory and practice of make-up for the stage. Lectures on make-up materials, their appearance under stage light, and the characterization by facial change. Laboratory application of principles.

One two-hour period per week.

25. Dramatic Workshop

1-2 units

A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance.

Three to six hours per week.

A maximum of four units degree credit is allowed for this course.

30. Playwriting

3 units

The critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio.

Prerequisite: English 1A-1B or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

40. Drama History and Appreciation

3 units

Designed for students not majoring in speech and drama, but who wish to know more about drama as a part of their general education. Will cover representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America.

Not open to speech and drama majors.

Three one-hour periods per week.

Upper Division

Speech 1, and 2 or 3 or 7 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Oral Interpretation 3 units

Advanced study of the principles of oral interpretation; extensive practice in reading prose and poetry.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking 3 units

A detailed study of speech planning, the techniques of presentation, and theory of address. Extensive work on speech content, selected study of speech criticism and great speeches in history.

Three one-hour periods per week.

105. Advanced Forensics Workshop 1 unit

Preparation and practice for participation in intramural and intercollegiate forensics. A maximum of four units of degree credit is allowed for this course.

Two one-hour activity periods per week.

106. Advanced Public Discussion and Parliamentary Procedure 2 units

Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application.

One one-hour lecture, one two-hour activity period per week.

111. Advanced Radio Workshop 1-2 units

A course of the same character as Speech 11 for advanced students.

Prerequisite: Consent of the instructor.

One or two three-hour laboratory periods per week.

A maximum of four units degree credit is allowed for this course.

113. Radio Production-Directing 3 units

The program director's job in the typical radio station, including the planning, organization, and production of all types of radio programs.

Prerequisite: Speech 7, and 11 or 111.

One three-hour period per week.

Dual registration with Speech 11 or 111 not permitted.

114. Radio Sales and Commercial Operation 3 units

Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement, sales methods, analysis of programs in relation to sales possibilities, Federal Trade Commission regulations, national advertising associations, costs of programs, making of contracts, etc.

Prerequisite: Speech 10 and 113 or consent of instructor.

Three one-hour periods per week.

115. Field Training in Radio and Television 2-4 units

"On-the-job" participation in the work of stations KIEM-KRED, KHUM, and KIEM-TV, and the College training station, KHSC.

Prerequisites: Speech 10, 11, 12, 111, 113, 114, or consent of the instructor.

Six to twelve hours per week determined by units of credit to be earned.

116. Music in Radio Broadcasting 3 units

The various uses of music in the radio program involving the building and production of musical programs; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.

Prerequisite: Speech 10 or 110, 11 or 111, 113.

Three one-hour periods per week.

- 125. Advanced Dramatic Workshop** (fall, spring) **1-2 units**
 A course of the same character as Speech 25 for advanced students.
 Prerequisite: Speech 1, 2 or 3 or consent of the instructor.
 Three two-hour periods per week (for two units).
 A maximum of four units degree credit is allowed for this course.
- 126. Play Production—Directing** **3 units**
 From the standpoint of the director and producer (publicity, house management, etc.). Practical work in the laboratory in both phases.
 Two one-hour lectures and one three-hour laboratory period per week.
- 127. Play Production—Staging** **3 units**
 From the standpoint of the backstage technician: scene design, and construction, set dressing, lighting, property, sound.
 Prerequisite: Speech 21.
 Two one-hour lectures and one three-hour laboratory period per week.
- 130. Advanced Playwriting** **3 units**
 A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.
 Prerequisite: English 1A-1B or consent of instructor.
 Two one-hour lectures and one two-hour activity period per week.
- 140. Survey of the Drama** **3 units**
 The historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights.
 Three one-hour periods per week.
- 141. Modern American Drama** **3 units**
 A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present.
 Three one-hour periods per week.
- 170. Phonetics** (fall) **3 units**
 Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.
 Three one-hour periods per week.
- 180. Speech Correction** **2 units**
 Classification, diagnosis, and treatment of speech defects with emphasis on articulation and voice disorders. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.
 Two one-hour periods per week.
- 181. Advanced Speech Correction** **2 units**
 Emphasis is placed on organic speech disorders and stuttering. Special attention is given to making case studies as well as to methods of testing, diagnosis, and treatment.
 Two one-hour periods per week.
- 182. Speech Correction Clinical Practice** **1 unit**
 Supervised practical work in the speech clinic with children and adults who have articulation and voice disorders.
 Three one-hour laboratory periods per week.
 Limited to one unit per semester except in summer session.
 Maximum credit allowance: four units.
- 183. Advanced Speech Correction Clinical Practice** **1 unit**
 Supervised practical work in the speech clinic with children and adults having more serious types of speech disorders.
 Three one-hour laboratory periods per week.
 Limited to one unit per semester except in summer session.
 Maximum credit allowance: four units

186. Introduction to Audiology**3 units**

Physics of sound, anatomy of the ear, acoustical aspects of speech, measurement of hearing, use of hearing aids, hearing conservation, and practice in administering hearing tests.

Three one-hour periods per week.

188. Communication Problems of the Hard of Hearing**3 units**

Techniques of speech reading, auditory training, speech therapy and classroom adjustment for the hard of hearing child. The integration of visual, tactual, and acoustical techniques of therapy.

Prerequisites: Speech 180, 182 or 183, 186.

Three one-hour periods per week.

191. Speech and Drama in the Elementary and Junior High School**3 units**

Designed for the teacher who is interested in using dramatic activities and discussion techniques. A workshop for the consideration of such problems as: Conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and drama in the classroom.

Three one-hour periods per week.

199. Special Problems**1-3 units**

Individual study on selected problems in the fields of speech, drama, stagecraft, speech correction, radio or television.

Hours to be arranged with the instructor.

Graduate Division**226. Advanced Stage Direction****3 units**

The purpose of this course is to train teachers in the techniques of dramatic direction. Each student will produce a full-length play and will prepare a prompt book based on the production.

Prerequisite: Graduate standing and consent of instructor.

241. Modern American Drama**3 units**

See Spch. 141.

THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

OBJECTIVES

The Division of Health and Physical Education has the following functions:

1. To provide all students with an opportunity to secure instruction for the development of skills in a variety of physical activities which contribute to maintenance of health and which give opportunity for self-expression in individual or group participation ;
2. To give students an opportunity for recreation and competition in the voluntary, the intramural, and the intercollegiate sports programs ;
3. To provide professional training for students seeking to qualify themselves for positions in public school teaching in health and physical education or in school and municipal recreation leadership ;
4. To prepare teachers to handle intelligently the health and physical education program in the elementary schools ;
5. To provide curricula leading to the B.S. degree for graduate nurses and prenursing students ; and
6. To provide opportunities for those interested to acquire skills, techniques, and principles which enable them to serve their communities as leaders of young people.

GENERAL REQUIREMENTS IN HEALTH AND PHYSICAL EDUCATION

Service Courses

All students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during each semester of the freshman and sophomore years. Men (other than physical education majors) may substitute registration in intercollegiate athletics for an activity course during the semester of competition. First semester freshmen are expected to enroll in P. E. 5 (Men) or P. E. 15 (Women).

Lower division students carrying fewer than 12 units during any semester may postpone taking physical education but are not exempt from the total four semesters requirement in lower division.

No permanent excuse from required activity courses may be granted other than by written consent of the division chairman.

Health Education

Two units of credit in H. & H. 1 (Personal Health and Safety) are required of all students for graduation in A.B. and B.S. degree programs. This course meets the State regulation for safety and fire prevention education.

THE PHYSICAL EDUCATION CURRICULUM

DEGREE AND CREDENTIAL REQUIREMENTS IN PHYSICAL EDUCATION

Course Numbers and Titles	Lower Division		
	General Secondary Credential	Special Secondary Credential	Liberal Arts* (Without a teaching credential)
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
P.E. 2, 3, 4—Majors' Activity Sections.....	6	6	6
P.E. 70—Introduction to Physical Education..	2	2	2
General Education (To be fulfilled in addition to all work taken for the major) :			
P.E. 1—Majors' Activity Sections.....	2	2	2
Engl. 1A—First-year Reading and Composition	3	3	3
H.&H. 1—Personal Health and Safety.....	2	2	2
Literature, Philosophy, or Arts.....	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences	9	9	9
Psych. 1—General Psychology	3	3	3
Social Sciences. (See page 41.).....	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 42.)			
Spch. 1—Fundamentals of Speech.....	3	3	3
Restricted Electives	8	8	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Completion of lower division requirements for a minor	6-20†	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 41-42. Part of the work required for a teaching minor (usually not more than five units) may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in physical education, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

DEGREE AND CREDENTIAL REQUIREMENTS IN PHYSICAL EDUCATION—Continued

<i>Course Numbers and Titles</i>	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>Liberal Arts (Without a teaching credential)</i>
Upper Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
*P.E. 100-101—Methods of Teaching Physical Education -----	4	4	4
*P.E. 151—Kinesiology and Applied Anatomy	3	3	3
P.E. 152—Methods in Corrective Physical Education -----	2	2	2
P.E. 153—Physiology of Exercise-----	3	3	3
P.E. 154—Curriculum Development and Evaluation -----	3	3	3
P.E. 175—History and Principles of Physical Education -----	2	2	2
P.E. 178—Organization, Administration and Facility Planning -----	3	3	3
Electives -----	8	8	8
Chosen from:			
P.E. 77—Campercraft			
P.E. 88—Club Leadership			
H.&H. 55—First Aid			
P.E. 192ABC—Theory of Athletics (men)			
P.E. 193ABC—Methods of Teaching Sports (women)			
H.&H. 50—Home Nursing			
H.&H. 156—Techniques in Athletic Training			
H.&H. 160—Public Health			
P.E. 191—Singing Games and Folk Dances			
NOTE: If the student fails to pass the proficiency test in activity areas at the conclusion of the junior year, it will be necessary to utilize two of the elective units listed above to develop proficiency in these areas.			
Total units required in Physical Education and Health and Hygiene major-----	36	36	36

* Courses starred should be taken during the junior year.

DEGREE AND CREDENTIAL REQUIREMENTS IN PHYSICAL EDUCATION—Continued

<i>Course Numbers and Titles</i>	<i>General Secondary Credential</i>	<i>Special* Secondary Credential</i>	<i>Liberal Arts (Without a teaching credential)</i>
Other Requirements:	Units	Units	Units
†Educ. 113—Psychological and Social Foundations of Education	5	5	—
Educ. 153—Audio-Visual Education	2	—	—
Educ. 175—Core Course in Secondary Education	5	5	—
†Educ. 120P.E.—Elementary School Physical Education	—	—	2
Educ. 370AB—Student Teaching—Secondary School Physical Education	—	6	—
H.&H. 161—School Health Education	3	3	3
P.E. 176—School and Community Recreation	2	2	2
Educ. 181P.E.—The Teaching of Physical Education	2	2	—
Completion of upper division requirements for a minor	0-6	—	—
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements:			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	—	—
In each Education course taken	1.00	1.00	—
For admission to Graduate Division:			
In major	1.5	—	—
In all upper division work taken	1.5	—	—
Graduate Year (General Secondary Credential Only)			Units
P.E. 289 and 299			4-6
Educ. 265—Guidance in Education			2
Educ. 275—Seminar in Secondary Education			2
Educ. 370A-370B—Student Teaching in the Secondary School			6
Elective in secondary subject field			0-2
Major, or minor or elective (upper division or graduate courses) to total			30
Scholarship requirement (all work in graduate year)			1.75
Master's degree in teaching of physical education. See chairman of Division of Health and Physical Education for Program.			

* With slight program modifications, it is possible for the physical education special credential candidate also to qualify for a general elementary credential within the four-year program. See the division chairman for information.

† Courses to be taken during the junior year.

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN PHYSICAL EDUCATION

Junior High School Major *	Liberal Arts or Elementary Education Minor		Minor for Candidates for General Secondary Credential	
	Lower Division		Lower Division	
H.&H. 55 ____ 2 units	H.&H. 55 ____ 2 units		H.&H. 55 ____ 2 units	
P.E. 76 ____ 2 units				
P.E. 70 ____ 2 units				
P.E. 77 ____ 2 units				
	Men		Men	
	P.E.* 5 ____ $\frac{1}{2}$ unit		P.E. 9 ____ $\frac{1}{2}$ unit	
	P.E. 9 ____ $\frac{1}{2}$ unit		P.E. 11 ____ $\frac{1}{2}$ unit	
	P.E. 11 ____ $\frac{1}{2}$ unit		P.E. 12 ____ $\frac{1}{2}$ unit	
	P.E. 12 ____ $\frac{1}{2}$ unit		P.E. 34 ____ $\frac{1}{2}$ unit	
	Women		Women	
	P.E. 15 ____ $\frac{1}{2}$ unit		P.E. 15 ____ $\frac{1}{2}$ unit	
	P.E. 16A ____ $\frac{1}{2}$ unit		P.E. 16A ____ $\frac{1}{2}$ unit	
	P.E. 17A ____ $\frac{1}{2}$ unit		P.E. 17A ____ $\frac{1}{2}$ unit	
	P.E. 18A ____ $\frac{1}{2}$ unit		P.E. 18A ____ $\frac{1}{2}$ unit	
	Upper Division		Upper Division	
H.&H. 161 ____ 2 units	P.E. 100-101 ____ 4 units		P.E. 100-101 ____ 4 units	
P.E. 175 ____ 3 units	P.E. 191 ____ 1 unit		P.E. 178 ____ 2 units	
P.E. 100-101 ____ 4 units	H.&H. 161 ____ 3 units		H.&H. 161 ____ 3 units	
Educ. 120 P.E. ____ 2 units	Educ. 120 P.E. ____ 2 units		Elective ____ 3 units	
P.E. 191 ____ 1 unit				
	Men		Men	
P.E. 192 ____ 4 units			P.E. 192 ____ 4 units	
	Women		Women	
P.E. 193C ____ 2 units			P.E. 193C ____ 2 units	
P.E. 194CD ____ 2 units			P.E. 194CD ____ 2 units	
Totals units required : 24 units	14 units		20 units	

DESCRIPTION OF COURSES

COURSES FOR MEN

Lower Division

1M, 2M, 3M, 4M. Majors' Activity Sections 2 units each course

Required of all men who elect physical education as a major and to be taken in the lower division, 8 hours per week. The object of the courses is to develop skill in a variety of activities suitable for schools or recreation centers.

5. Freshman Physical Activities $\frac{1}{2}$ unit

Fundamentals of team and individual sports, together with some achievement tests.

Required of all freshmen and limited to freshmen.

Two one-hour periods per week.

6. Team Sports $\frac{1}{2}$ unit

Touch football, volleyball, and handball.

Two one-hour periods per week.

7. Team Sports $\frac{1}{2}$ unit

Basketball, track, and softball.

Two one-hour periods per week.

* Additional requirements for the junior high school credential are given in detail on pages 74-75.

- 8. Individual Sports** 1/2 unit
 Boxing, wrestling.
 Two one-hour periods per week.
- 9A-9B. Tumbling** 1/2 unit
 Two one-hour periods per week.
- 10. Body Building** 1/2 unit
 Two one-hour periods per week.
- 11A-11B. Gymnastics** 1/2 unit
 Two one-hour periods per week.
- 12A-12B. Trampoline** 1/2 unit
 Two one-hour periods per week.
- 50. Intercollegiate Football** 1 unit
 Varsity and junior varsity teams.
 Daily afternoon practice.
- 51. Intercollegiate Basketball** 1/2 unit
 Varsity and junior varsity teams.
 Daily afternoon practice.
- 52. Intercollegiate Baseball** 1 unit
 Varsity and junior varsity teams.
 Daily afternoon practice.
- 53. Intercollegiate Track** 1 unit
 Varsity team.
 Daily afternoon practice.
- 54. Intercollegiate Boxing** 1/2 unit
 Two one-hour periods per week.
- 89. Boy Scouting Program** 2 units
 Emphasizes the aims and purposes of Scouting, its character influencing and citizenship training methods, information on how to organize the Scout program, how it is used by local institutions and information and skills of the Scoutmaster.
 Two one-hour periods per week.

Upper Division

- 192A. Theory of Athletics** 2 units
 Coaching techniques in football and basketball.
 Prerequisite: Upper division status.
 Two one-hour periods per week.
- 192B. Theory of Athletics** 2 units
 Coaching techniques in basketball.
 Prerequisite: Upper division status.
 Two one-hour periods per week.
- 192C. Theory of Athletics** 2 units
 Coaching techniques in baseball, track and field.
 Prerequisite: Upper division status only.
 Two one-hour periods per week.
- * 194A. Football Officiating** 1 unit
 The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.
 One two-hour period per week.

* Given if sufficient demand.

*** 194B. Basketball Officiating**

1 unit

The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.

One two-hour period per week.

COURSES FOR WOMEN

Lower Division

1W, 2W, 3W, 4W. Majors' Activity Sections

2 units each course

Required of all women who elect physical education as a major and to be taken in the lower division, 8 hours per week. The object of the courses is to develop skill in a variety of activities suitable for schools or recreation centers.

15. Freshman Physical Activities

$\frac{1}{2}$ unit

A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.

Required of all freshmen women and limited to freshmen.

Two one-hour periods per week.

16. Team Sports

$\frac{1}{2}$ unit

Field hockey, soccer, speedball.

Two one-hour periods per week.

17. Team Sports

$\frac{1}{2}$ unit

Basketball, softball, volleyball.

Two one-hour periods per week.

18A. Beginning Dance

$\frac{1}{2}$ unit

Introduction to modern dance technique.

Two one-hour periods per week.

18B. Intermediate Dance

$\frac{1}{2}$ unit

Two one-hour periods per week.

18C. Advanced Dance

$\frac{1}{2}$ unit

Two one-hour periods per week.

19. Tumbling

$\frac{1}{2}$ unit

Two one-hour periods per week.

Upper Division

193A. Methods of Teaching Team Sports

2 units

Field hockey, soccer, softball, volleyball, speedball, basketball.

Prerequisite: Previous participation.

193B. Methods of Teaching Individual Sports

2 units

Tennis, archery, badminton, recreational sports.

Prerequisite: Previous participation.

193C. Analysis of Dance Forms

2 units

The adaptation to secondary teaching level of modern dance, folk, and pre-classic dance forms.

194CD. Officiating Women's Sports

1 unit each course

Courses in theory and practice of officiating team and individual sports for women. An opportunity to become a Rated Official will be available in major sports.

* Given if sufficient demand.

COURSES FOR MEN AND WOMEN**Lower Division**

- | | |
|--|--------------------------------------|
| 25. Individual Exercise Program | $\frac{1}{2}$ unit |
| A program of special exercise and activity suited to the individual student.
Two one-hour periods per week. | |
| 27A. Elementary Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 27B. Intermediate Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 27C. Advanced Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 28A. Elementary Archery | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 28B. Advanced Archery | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 29A. Elementary Badminton | $\frac{1}{2}$ unit |
| Badminton, deck tennis, paddle tennis, table tennis.
Two one-hour periods per week. | |
| 29B. Advanced Badminton | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 30A. Elementary Golf | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 30B. Advanced Golf | $\frac{1}{2}$ unit |
| One two-hour period per week. | |
| 31. Introductory Social Dancing | $\frac{1}{2}$ unit |
| An introductory course including both ballroom and folk dancing.
Two one-hour periods per week. | |
| 32. Ballroom Dancing | $\frac{1}{2}$ unit |
| Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette. | |
| 33. Folk Dancing | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 34. Square Dancing | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 36. Bowling | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 55. Intercollegiate Tennis | 1 unit |
| Daily afternoon practice. | |
| 56. Intercollegiate Golf | 1 unit |
| Daily afternoon practice. | |
| 70. Introduction to Health and Physical Education | 2 units |
| The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program. | |

77. Campcraft

2 units

Thorough theoretical background and some practical laboratory experience in school and recreation camping.

88. Club Leadership

2 units

History and basic principles and concepts of boys' and girls' club work; the organization of a club program; requirements for adult leadership; summer camps. Includes practice in laboratory field work.

Upper Division

100-101. Methods of Teaching Physical Education

2-2 units

Procedures and methods of teaching the wide variety of physical education activities suitable for schools and recreation centers. Required of all physical education majors before admission to student teaching.

Four one-hour periods per week.

151. Kinesiology and Applied Anatomy

3 units

Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding body movement in exercise and sports.

152. Methods in Corrective Physical Education

2 units

Principles of good body mechanics; causes, correction, and prevention of postural defects; relaxation; corrective physical education in the school program; equipment, facilities, and procedure; massage. Practical work included.

Must be taken concurrently with P.E. 151.

153. Physiology of Exercise

3 units

Physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.

Prerequisite: Physiology 1.

Three one-hour periods per week.

154. Curriculum Development and Evaluation

3 units

Bases of the various programs of physical education in terms of individual, community, and societal needs. Appraisal and evaluation of the total school physical education program.

175. History and Principles of Physical Education

2 units

Evaluation of the history of physical education, and current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.

Two one-hour periods per week.

176. School and Community Recreation

2 units

A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing recreational activities is required.

Two one-hour periods per week.

178. Organization, Administration and Facility Planning

2 units

The problems of organization and administration of the physical education, intramural and interscholastic athletic programs and consideration of facility planning and utilization.

191. Methods in Singing Games and Folk Dances

1 unit

Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.

Two one-hour periods per week.

199. Special Problems

3 units

Work in special areas not covered by scheduled courses.

Prerequisite: Senior standing with a 2.0 grade index in the major field.

Graduate Division

289. Techniques of Research in Physical Education **2-3 units**

Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.

292. Advanced Coaching Techniques **2 units**

The theory and practice of advanced coaching techniques as related to inter-scholastic and collegiate competition.

299. Problems in Physical Education and Recreation **3 units**

A study of selected problems in physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

THE HEALTH AND HYGIENE CURRICULUM**NURSING****DEGREE REQUIREMENTS IN NURSING**

Graduate nurses from accredited nursing schools with three years of training who hold California certification as registered nurses may be granted the Bachelor of Science degree upon the completion of an approved program of study, as outlined below. Transcripts of record covering the hospital training program should be submitted for evaluation.

The major requirements are presumed to be satisfied by the work in nursing, for which from 30 to 60 units may be allowed.

<i>Require- ments for</i>	<i>B. S. Degree</i>	<i>Graduate nurses</i>	<i>Prenursing students</i>
General Education:		Units	Units
Engl. 1A—First-year Reading and Composition-----		3	3
H.Ec. 20—General Nutrition Lecture-----		--	2
H.Ec. 21—General Nutrition Laboratory-----		--	1
H.&H. 1—Personal Health and Safety-----		2	2
Literature, Philosophy or the Arts-----		6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences—Electives (See page 41.)-----		9	--
Bact. 1—General Bacteriology-----		--	5
Chem. 2A—Introduction to Chemistry-----		--	3
Physiol. 1—Elementary Physiology-----		--	3
Physical Education Activities-----		2	2
Psych. 1—General Psychology-----		3	3
Social Sciences (See page 41.)-----		9	9
(Including fulfillment of requirement in United States history and Constitution. See page 42.)-----		3	3
Spch. 1—Fundamentals of Speech-----		3	3
Restricted Electives-----		8	3
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:		Units	Units
Anat. 66—Human Anatomy-----		--	3
Electives to bring total to-----		128	128
Scholarship requirement on all work taken-----		1.00	1.00

Prenursing

The one-year prenursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

RECOMMENDED SEQUENCE

	Sem. 1	Sem. 2
Anatomy 66 -----	-	3
Bacteriology 1 -----	5	-
Chemistry 2A -----	3	-
English 1A -----	-	3
Home Economics 20 -----	2	-
Home Economics 21 -----	1	-
Physiology 1 -----	-	3
Psychology 1 -----	-	3
Electives -----	4	2
Physical Education -----	1½	1½
	15½	14½

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN HEALTH HYGIENE

<i>Junior High School Major *</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division		
H.&H. 55 ---- 2 units	H.&H. 1 ---- 2 units	H.&H. 55 ---- 2 units
Anat. 66 ---- 3 units	H.&H. 55 ---- 2 units	At least 18 additional
H.Ec. 20 ---- 2 units	H.Ec. 20 ---- 3 units	units in courses approved
H.Ec. 21 ---- 1 unit		by the Division Chair-
Physiol. 1 ---- 3 units		man.
P.E. activities 1 unit		
Upper Division		
P.E. 151 ----- 3 units	H.&H. 160 -- 3 units	
P.E. 153 ----- 3 units	H.&H. 161 -- 3 units	
H.&H. 160 -- 3 units		
H.&H. 161 -- 3 units		
Total units		
required 24 units	13 units	20 units

* A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar. See page 170.

Additional requirements for the junior high school credential are given in detail on pages 74-75.

DESCRIPTION OF COURSES

Lower Division

1. Personal Health and Safety 2 units

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Safety education and fire prevention are studied in compliance with state requirements.

Two one-hour periods per week.

50. Home Nursing 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid**2 units**

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will be recommended for the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

Upper Division**156. Techniques in Athletic Training****2 units**

Care and prevention of athletic injuries, taping, bandaging, massage, manipulation, and heat therapy.

Two one-hour periods per week.

160. Public Health**3 units**

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program**3 units**

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Three one-hour periods per week.

168. Eye Screening Tests**1 unit**

Techniques and procedures in administering Snellen and Plus Sphere tests. Meets qualification standards for certification of eligibility to administer eye and sight tests by teachers.

199. Special Problems**3 units**

Special problems based on field observations, or related to practice teaching.

Prerequisite: Senior standing and H&H 161.

Related Courses in Other Departments

Anat. 66—Human Anatomy	3 units
Bact. 1—General Bacteriology	3 or 5 units
Biol. 103—Microtechnique	2 or 3 units
H.Ec. 20—Nutrition Lecture	2 units
H.Ec. 21—Nutrition Laboratory	1 unit
H.Ec. 120—Dietetics	3 units
H.Ec. 150—Child Care	2 units
P.E. 151—Kinesiology and Applied Anatomy	3 units
P.E. 152—Methods in Corrective Physical Education	2 units
P.E. 153—Physiology of Exercise	3 units
Physiol. 1—Elementary Physiology Lecture	3 units
Physiol. 2—Elementary Physiology Laboratory	2 units

THE DIVISION OF LANGUAGE AND LITERATURE

English Language and Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses that will enrich cultural and social backgrounds, provide improved use of communication skills, and aid in developing a general background in English for prospective teachers.
2. To provide curricula leading to:
 - a. General secondary credential with majors in English and language arts.
 - b. The A.B. degree with a liberal arts major in English as a basis for graduate study for advanced degrees.
 - c. Professional work in journalism.
3. To enable the student to read and use foreign languages for recreative, cultural, or vocational purposes.
4. To give the student a knowledge of the foreign country and its people.
5. To provide courses for a junior high school major in English, minors in English, journalism, French, and Spanish.

NOTE: Candidates for a general secondary credential with a teaching major in English or Language Arts, or with a teaching minor in English or in Journalism, will be expected to use clear, correct, and fluent English in speech and in writing. Those who do not meet the standards set will take further training in English.

THE ENGLISH AND JOURNALISM CURRICULUM

DEGREE AND CREDENTIAL REQUIREMENTS IN ENGLISH AND JOURNALISM

	<i>English</i>	<i>Language Arts</i>	<i>English Liberal Arts</i>	<i>English Journalism</i>
<i>Course numbers and titles</i>	<i>with General Secondary Credential</i>		<i>(without a teaching credential)</i>	
Lower Division				
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Engl. 1B—First-year Reading and Composition -----	3	3	3	3
Engl. 46A-46B—Survey of English Literature -----	6	6	6	6
Spch. 2—Oral Interpretation or Spch. 3—Public Speaking -----	—	3	—	—
Spch. 11—Radio Workshop -----	—	2	—	—
Jn. 20—Newsriting -----	3	3	—	3
Jn. 21—Reporting -----	—	—	—	3
Jn. 27—Journalism Laboratory -----	—	—	—	2
Jn. 29—Press Photography -----	—	—	—	1

It is recommended that students majoring in this division include foreign language in their programs. In addition, any student who expects to transfer to another institution for upper-division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

General Education: (To be fulfilled in addition to all requirements for the major)

Engl. 1A—First-year Reading and Composition -----	3	3	3	3
H.&H. 1—Personal Health and Safety -----	2	2	2	2
Literature, Philosophy, or Arts -----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				

DEGREE CREDENTIAL REQUIREMENTS IN ENGLISH AND JOURNALISM—Continued

Course numbers and titles	Language English English English			
	English	Arts	Liberal Arts	Journalism
	with General Secondary Credential		(without a teaching credential)	
Lower Division—Continued				
General Education—Continued:	Units	Units	Units	Units
Natural Sciences _____ (Including one physical and one biological science)	9	9	9	9
Physical Education Activities _____	2	2	2	2
Psych. 1—General Psychology _____	3	3	3	3
Social Sciences _____ (Including fulfillment of requirement in United States history and Constitution. See page 42).	9	9	9	9
Spch. 1—Fundamentals of Speech _____	3	3	3	3
Restricted Electives _____ (Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)	8	8	8	8
Other Requirements:				
Educ. 1—Introduction to Teaching _____	1	1	—	—
Completion of lower division requirements for a minor _____	6-20*	6-20	—	—
Upper Division				
Major:				
Engl. 101—Advanced Composition _____	—	3	—	3
Engl. 115—The English Language _____	3	—	—	—
Engl. 136A-136B—American Literature _____	6	—	—	—
Engl. 160—Chaucer _____	—	—	3	—
Engl. 162—Shakespeare _____	3	—	3	—
Additional approved courses in English _____	—	—	—	6
Jn. 122—Copyreading _____	—	—	—	3
Jn. 124—Feature Writing _____	—	—	—	3
B.A. 125—Advertising _____	—	—	—	3
Jn. 126—Editorial Writing _____	—	—	—	3
Jn. 127—Journalism Laboratory _____	—	—	—	3
Electives in Upper Division English _____	—	—	18	—
Electives—Chosen from:				
Spch. 170—Phonetics _____	6	—	—	—
Engl. 142A-B—The Novel _____				
Engl. 153—The Age of Elizabeth _____				
Engl. 154—The Age of Swift and Pope _____				
Engl. 155—The Romantic Period _____				
Engl. 157—The Victorian Period _____				
Engl. 160—Chaucer _____	6	—	—	—
Engl. 184—Twentieth Century Literature _____				
Electives—(English, speech, drama, radio or journalism) _____	—	6	—	—
Speech 102—Advanced Oral Interpretation or Speech 103—Advanced Public Speaking _____	—	3	—	—
Speech 180—Speech Correction _____	—	3	—	—
Speech 126 or 127—Play Production _____	3	3	—	—

* See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year.

DEGREE CREDENTIAL REQUIREMENTS IN ENGLISH AND JOURNALISM—Continued

Course numbers and titles	Language English		English	English
	Arts		Liberal Arts	Journalism
	with General Secondary Credential		(without a teaching credential)	
Other Requirements:	Units	Units	Units	Units
Educ. 113—Psychological and Social Foundations of Education	5	5	—	—
Educ. 153—Audio-Visual Education	2	2	—	—
Educ. 175—Core Course in Secondary Education	5	5	—	—
Educ. 181E—The Teaching of English	2	2	—	—
or Educ. 181Sp—The Teaching of Speech	—	(2)	—	—
Completion of upper division requirements for a minor	0-6*	0-6*	*	—
Electives to total	124	124	124	124
Total upper division required	40	40	40	40
Scholarship Requirements:				
In all work taken	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00
In all upper division work taken	1.00	1.00	—	—
In each Education course taken	1.00	1.00	—	—
For admission to the Graduate Division:				
In major	1.5	1.5	—	—
In all upper division work taken	1.5	1.5	—	—
Graduate Year				
Elective in major field (upper division or graduate)	3	3	—	—
Educ. 265—Guidance in Education	2	2	—	—
Educ. 275—Seminar in Secondary Education	2	2	—	—
Educ. 370A-370B—Student Teaching in the Secondary School	6	6	—	—
Elective in secondary subject field	3	3	—	—
Major, minor, or elective (upper division or graduate) to total	30	30	—	—
Scholarship Requirement (all work in graduate year)	1.75	1.75	—	—

* See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year.

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN
ENGLISH AND JOURNALISM

<i>Junior High School Major *</i>	<i>Minor</i>	<i>Minor in Journalism</i>
Lower Division		
Eng. 1A-1B --- 6 units	Eng. 1A-1B ----- 6 units	Journalism 20 --- 3 units
Eng. 46A-46B_ 6 units	Recommended: Eng. 46A-46B.	Journalism 21 --- 3 units
Upper Division		
12 units U. D. English	6 units U. D. English.	Journalism (U. D.) ----- 6 units
Recommended:	Recommended:	(May not include more than 3 units in either Journalism 27 or 127.)
Eng. 115 --- 3 units	Eng. 115 ----- 3 units	
Eng. 136A or 136B --- 3 units	Eng. 136A or 136B ----- 3 units	
Eng. 162 --- 3 units		
One of the later period courses -- 3 units		
Total units required ---24 units	12 units	12 units
<i>Teaching Minors for Candidates for General Secondary Credential</i>		
<i>English</i>		<i>Journalism</i>
English 1A-1B ----- 6 units	English 1A-1B ----- 6 units	
Other courses approved by the Division Chairman----- 15 units	Other courses approved by the Division Chairman----- 15 units	
Total units required ----- 21 units	Total units required ----- 21 units	

DESCRIPTION OF COURSES

Lower Division

Engl. X. English Composition **3 units**

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Engl. X." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition **3 units**

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Engl. X test, or a passing grade in the Engl. X course.

Three one-hour periods per week.

1B. First-year Reading and Composition **3 units**

An introduction to the study of literature with further training in writing. Not applicable toward the General Education requirement in Literature, Philosophy, or the Arts.

Prerequisite: English 1A.

46A. Survey of English Literature **3 units**

The beginning of English literature and the main aspect of its development down to the Restoration (1660).

Prerequisite: English 1B.

Three one-hour periods per week.

* Additional requirements for the junior high school credential are given in detail on pages 74-75.

- 46B. Survey of English Literature** 3 units
The leading movements in the development of English literature from the Restoration (1660).
Three one-hour periods per week.
- 74A. Masterpieces of World Literature** 3 units
Begins with Homer; goes through the Renaissance.
Three one-hour periods per week.
- 74B. Masterpieces of World Literature** 3 units
From the Renaissance.
74A is not prerequisite to 74B.
Three one-hour periods per week.

Upper Division

English 1A-1B is prerequisite to all upper division courses in English.

- 101. Advanced Composition** 3 units
Grammar, usage, and composition for prospective teachers of English.
Three one-hour periods per week.
- 109. Report Writing** 3 units
Intensive course in technical writing primarily for students in wild life, engineering, and other science fields.
Prerequisite: English 1A.
Three one-hour periods per week.
- 115. The English Language** 3 units
A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
Three one-hour periods per week.
- 136A. American Literature** 3 units
A study of American literature from Colonial times to the middle of the nineteenth century.
Three one-hour periods per week.
- 136B. American Literature** 3 units
American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.
- 142A. The Novel** 3 units
The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
Three one-hour periods per week.
- 142B. The Novel** 3 units
The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
Three one-hour periods per week.
- 153. The Age of Elizabeth** 3 units
Prose and poetry, exclusive of the drama.
Three one-hour periods per week.
- 154. The Age of Swift and Pope** 3 units
A study of English writers of the Augustan age in relation to the social and political history of the period.
Three one-hour periods per week.
- 155. The Romantic Period** 3 units
English literature from 1784 to 1837. The contribution of the poets and prose writers of the romantic revolution to contemporary and modern thought.
Three one-hour periods per week.

157. The Victorian Period 3 units

English literature from 1837 to 1900. The writings of Carlyle, Arnold, Tennyson, Browning and later Victorians as interpretation of life in the nineteenth century and the present era.

Three one-hour periods per week.

160. Chaucer 3 units**162. Shakespeare 3 units****178. Children's Literature 3 units**

A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Required for candidates for the Kindergarten-Primary, the General Elementary and the General Junior High School Credentials. Not applicable toward an English major or minor.

Three one-hour periods per week.

184. Twentieth Century Literature 3 units

A study of current literary trends, and of leading modern writers in England and America, in selected novels, short stories, and critical essays.

Three one-hour periods per week.

188. The Principles and Practice of Literary Criticism 3 units

The principles and practice of literary criticism from Plato and Aristotle. Application of criteria to selected texts.

Three one-hour periods per week.

199. Special Problems 1-3 units

Open to advanced students with the consent of the instructor.

JOURNALISM

NOTE: Ability to type is necessary in all journalism courses.

Students with special interests in journalism are invited to consult with the journalism adviser. Satisfactory degree programs may be arranged with a group major, featuring journalism. (See page 170.) The passing of the English X test or of the English X course is prerequisite to all courses in journalism.

Lower Division

20. Newswriting 3 units

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Prerequisite: Passing English X examination or the English X course.

Three one-hour periods per week.

21. Reporting 3 units

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

22. Principles of Copyreading 3 units

The elements of evaluating and editing newspaper copy. Basic typography and design. Proofreading.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

27. Journalism Laboratory 1-2 units

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: English X and the consent of the instructor.

Three one-hour periods a week per unit.

29. Press Photography**1 unit**

A study of the qualities in photography which are important to reproduction by the various methods of printing.

One one-hour period per week.

Prerequisite: Art 50 and consent of the instructor.

Upper Division**122. Copyreading****3 units**

The editing of newspaper copy and the writing of headlines.

Prerequisite: Journalism 22, or consent of instructor.

Three one-hour periods per week.

124. Feature Writing**3 units**

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

126. Editorial Writing**3 units**

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

127. Journalism Laboratory**1-2 units**

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: Journalism 20 or 27, or consent of the instructor.

Three one-hour periods a week per unit.

MODERN LANGUAGES CURRICULUM**DEGREE AND CREDENTIAL MINOR REQUIREMENTS IN FRENCH**

<i>Course numbers and titles</i>	<i>Degree</i>	<i>General Secondary Credential</i>
Lower Division		
Fr. 1A-1B—Elementary French	8 units *	8 units *
Fr. 2A-2B—Intermediate French	6 units	6 units
Upper Division		
Electives	9 units	12 units
Total units required	19-23 units *	22-26 units *

DEGREE AND CREDENTIAL MINOR REQUIREMENTS IN SPANISH †

<i>Course numbers and titles</i>	<i>Degree</i>	<i>General Secondary Credential</i>
Lower Division		
Spanish 1A-1B—Elementary Spanish	8 units *	8 units *
Spanish 2A-2B—Intermediate Spanish	6 units	6 units
Upper Division		
Electives	9 units	12 units
Total units required	19-23 units *	22-26 units *

* Two years of high school French or Spanish may be substituted for 1A.

† The minors in Spanish have been temporarily discontinued.

FRENCH**Lower Division**

- 1A. Elementary French** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary French** 4 units
 Continuation of French 1A.
 Prerequisite: French 1A or two years of high school French.
 Four one-hour periods per week.
- 2A. Intermediate French** 3 units
 Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.
 Prerequisite: French 1B or equivalent.
 Three one-hour periods per week.
- 2B. Intermediate French** 3 units
 Continuation of French 2A.
 Prerequisite: French 2A or equivalent.
 Three one-hour periods per week.

Upper Division

- †101A-101B. Advanced Grammar, Composition, and Reading (year)** 3-3 units
 Review of the fundamentals of grammar; extensive study of advanced syntax; translation into French of moderately difficult English prose; intensive reading of literary texts with reports in French.
 Prerequisite: French 2B or equivalent.
 Three one-hour periods per week.
- †105A-105B. Survey of French Literature (year)** 3-3 units
 A brief survey of French literature from its beginning to the present time. Extensive reading of works of representative authors of all periods.
 Prerequisite: French 2B or equivalent.
 Three one-hour periods per week.
- 110A-110B. Directed Reading** 1-2 units

GERMAN**Lower Division**

- 1A. Elementary German** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary German** 4 units
 Continuation of German 1A.
 Prerequisite: German 1A or two years of high school German.
 Four one-hour periods per week.
- 2A. Intermediate German** 3 units
 Reading of modern short stories, novels, plays, and works descriptive of German civilization. Review of essentials of grammar, conversation.
 Prerequisite: German 1B or equivalent.
 Three one-hour periods per week.
- 2B. Intermediate German** 3 units
 Continuation of German 2A.
 Prerequisite: German 2A or equivalent.
 Three one-hour periods per week.

† Not given 1955-56.

SPANISH

Lower Division

- 1A. Elementary Spanish** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary Spanish** 4 units
 Continuation of Spanish 1A.
 Prerequisite: Spanish 1A or two years of high school Spanish.
 Four one-hour periods per week.
- 2A. Intermediate Spanish** 3 units
 Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.
 Prerequisite: Spanish 1B or equivalent.
 Three one-hour periods per week.
- 2B. Intermediate Spanish** 3 units
 Continuation of Spanish 2A.
 Prerequisite: Spanish 2A or equivalent.
 Three one-hour periods per week.

Upper Division

- *101A-101B. Advanced Grammar, Composition and Reading (year)** 3-3 units
 Review of the fundamentals of grammar; extensive study of advanced syntax; translation into Spanish of moderately difficult English prose; intensive reading of literary texts with reports in Spanish.
 Prerequisite: Spanish 2B or equivalent.
 Three one-hour periods per week.
- *105A-105B. Survey of Spanish Literature (year)** 3-3 units
 A brief survey of Spanish literature from its beginning to the present time.
 Extensive reading of representative authors of Spain and Latin America.
 Prerequisite: Spanish 2B or equivalent.
 Three one-hour periods per week.

* Not given 1955-56.

THE DIVISION OF NATURAL SCIENCES

Biological Sciences
Dairy-Agriculture
Physical Sciences
Forestry-Lumbering

Mathematics
Engineering
Game Management
Fisheries

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide:

1. A general background in the natural sciences to:
 - a. Fulfill the need for scientific training as a part of the General Education program.
 - b. Provide an acquaintance with scientific methods and principles for those training to become teachers in the elementary and secondary schools of the State.
2. Curriculums leading to:
 - a. The general secondary credential with major in:
 - (1) Conservation education. (See pages 141-143.)
 - (2) Life science and general science. (See pages 137-138.)
 - (3) Physical science and general science. (See pages 137-138.)
 - (4) Mathematics. (See page 155.)
 - b. The B.S. degree in wildlife management and conservation.
 - c. The B.S. degree in fisheries and conservation.
 - d. The A.B. degree in biological sciences, with differentiated majors in biology, botany, and zoology, for:
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the biological sciences.
 - e. The A.B. degree in premedical sciences.
3. Lower division preparatory or preprofessional curriculum for students of agriculture, animal and plant science, chemistry, chemical engineering, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science, pollution control.
4. Lower division curriculums in mathematics, physics, and physical science for engineering majors.
5. Minors in biology, botany, zoology, chemistry, physics, wildlife management, and mathematics for prospective secondary school teachers.
6. Two-year vocational programs in dairy-agriculture and forestry-lumbering.

MATHEMATICS BACKGROUND FOR NATURAL SCIENCE MAJORS

It is essential that students who intend to major in mathematics or science should have completed in high school two years of algebra, plane geometry, and trigonometry in order to expedite their work as much as possible.

THE NATURAL SCIENCES CURRICULUM

GENERAL SECONDARY CREDENTIAL REQUIREMENTS IN NATURAL SCIENCE

Course Numbers and Titles	Life and General Sciences		Physical and General Sciences	
	Lower Division		Upper Division	
Major:	<i>Units</i>		<i>Units</i>	
Chem. 1A-1B—General Inorganic Chemistry-----	10		10	
Phys. 2B—General Physics—Lectures-----	3		3	
Phys. 3A-3B—General Physics—Laboratory-----	2		2	
General Education: (To be fulfilled in addition to requirements for the major)				
Engl. 1A-1B—First-year Reading and Composition	6		6	
H. & H. 1—Personal Health and Safety-----	2		2	
Literature, Philosophy, or Arts-----	6		6	
(Fine and applied arts not to exceed three of the six.)				
Natural Sciences:				
Biol. 10A-10B—General Biology-----	6		6	
Phys. 2A—General Physics Lecture-----	3		3	
Physical Education Activities-----	2		2	
Psych. 1—General Psychology-----	3		3	
Social Sciences-----	9		9	
(Including fulfillment of requirement in United States history and Constitution. See page 42.)				
Spch. 1—Fundamentals of Speech-----	3		3	
Restricted Electives-----	8		8	
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)				
Other Requirements:				
Educ. 1—Introduction to Teaching-----	1		1	
Completion of lower division requirements for a teaching minor-----	6-20		6-20	
Major:				
Upper Division		<i>Units</i>	<i>Units</i>	
Total units required-----	(20)		(20)	
Physiol. 101—Mammalian Physiology-----	3		3	
Physiol. 102—Physiology Laboratory-----	2		2	
Electives-----	15		15	
Chosen from the following courses upon consultation with the adviser:				
Bact. 101—Bacteriology-----	x		-	
Biol. 101—Marine Biology-----	x		-	
Bact. 102—Bacteriology Laboratory-----	x		-	
Biol. 103—Microtechnique-----	x		-	
Biol. 114—Heredity and Evolution-----	x		-	
Biol. 107—Ecology-----	x		-	
Bot. 110A-110B—Plant Taxonomy-----	x		-	
Bot. 114—Advanced Ornamental Plants-----	x		-	
Chem. 105—Quantitative Analysis-----	x		x	
Chem. 108—Organic Chemistry Lectures-----	x		x	
Chem. 109—Organic Chemistry Laboratory-----	x		x	
Chem. 130—Biochemistry-----	x		-	
Phys. 104 A-B-C—Advanced General Physics-----	-		x	
Phys. 161—Electrical Measurements-----	-		x	
Phys. 105—Statics-----	-		x	
Phys. 171—Advanced Radio-----	-		-	
Phys. 175—Modern Physics-----	-		2	

GENERAL SECONDARY REQUIREMENTS IN NATURAL SCIENCES—Continued

	<i>Life and General Sciences (General Secondary Credential)</i>	<i>Physical and General Sciences</i>
Upper Division—Continued		
	<i>Units</i>	<i>Units</i>
Phys. 170—Electronics	—	x
Zool. 104—Field Zoology	x	—
Zool. 112—Invertebrate Zoology	x	—
Zool. 114—Comparative Anatomy of Vertebrates	x	—
Zool. 135—Mammalogy	x	—
Zool. 160—Embryology	x	—
Zool. 165—Ornithology	x	—
Zool. 170—Entomology	x	—
(Six units of nonprofessional courses in Game Management or Fisheries may be substituted for six units of the courses listed above.)		
Other Requirements:		
Educ. 113—Psychological and Social Foundations of Education	5	5
Educ. 153—Audio-Visual Education	2	2
Educ. 175—Course in Secondary Education	5	5
Educ. 181S—The Teaching of Science	2	2
Completion of upper division requirements for a minor	0-6*	0-6*
Electives to total	124	124
Total upper division required	40	40
Scholarship Requirements:		
In all work taken	1.00	1.00
In major and minor	1.00	1.00
In each education course taken	1.00	1.00
For admission to Graduate Division:		
In major	1.5	1.5
In all upper division work taken	1.5	1.5
Graduate Year		
Educ. 265—Guidance in Education	2	2
Educ. 275—Seminar in Secondary Education	2	2
Educ. 370A-370B—Student Teaching in the Sec- ondary School	6	6
Electives in secondary school subject-field (upper division or graduate)	6	6
Major, minor and electives (upper division or graduate courses) to total at least	30	30
Scholarship requirement (all work in graduate year)	1.75	1.75

* See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year. Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

BIOLOGICAL SCIENCES

DEGREE REQUIREMENTS IN BIOLOGICAL AND PREMEDICAL SCIENCES

Course Numbers and Titles	Liberal Arts			
	Biology	Botany	Zoology	Premedical
	(Without a teaching credential)			
Major:	Units	Units	Units	Units
* Biol. 10B—General Biology-----	3	—	—	—
* Bot. 1B—General Botany-----	—	4	—	—
Chem. 1A-1B—General Chemistry-----	10	10	10	10
Phys. 3A-3B—General Physics Laboratory	2	2	2	2
* Zool. 1B—General Zoology-----	—	—	4	4
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A-1B—First-year Reading and Composition-----	6	6	6	6
H.&H. 1—Personal Health and Safety--	2	2	2	2
Literature, Philosophy or the Arts-----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Science:				
Phys. 2A-2B—General Physics Lecture	6	6	6	6
Biol. 10A—General Biology-----	3	—	—	—
Bot. 1A—General Botany-----	—	4	—	—
Zool. 1A—General Zoology-----	—	—	4	4
Physical Education Activities-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Social Sciences-----	9	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 42.)				
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Restricted Electives-----	5	5	5	5
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)				
Other Requirements:				
Foreign Language-----	—	—	—	10 †

* A maximum of 16 semester units will be allowed toward the bachelor's degree in the introductory year courses in biology, botany, and zoology.

† Recommended but not required.

DEGREE REQUIREMENTS IN BIOLOGICAL AND PREMEDICAL SCIENCES—Continued

<i>Liberal Arts</i>				
<i>Biology Botany Zoology Premedical</i>				
<i>(Without a teaching credential)</i>				
Upper Division				
Minimum units required.....	(24*)	(24)	(24)	(24)
(Required courses are indicated by unit value; acceptable courses by letter "x." Zoology majors must complete at least three courses from those marked "3x" or "5x")				
Major:	Units	Units	Units	Units
Bact. 101—Bacteriology	x	x	x	x
Bact. 102—Bacteriology Laboratory	x	x	x	x
Biol. 103—Micro-Technique	x	x	x	3
Biol. 107—Ecology	x	x	x	—
Biol. 114—Heredity and Evolution	3	3	3x	3
Biol. 199—Special Problems in Biology	x	—	x	—
Bot. 110A-110B—Plant Taxonomy	x	x	—	—
Bot. 114—Advanced Ornamental Plants	x	x	—	—
Bot. 199—Special Problems in Botany	x	x	—	—
Physiol. 101—Mammalian Physiology	3	x	3x	3
Physiol. 102—Physiology Laboratory	2	—	2x	2
Fish. 136A-136B—Ichthyology	x	—	x	—
Fish. 141—Hydrobiology	x	—	x	—
Zool. 112—Invertebrate Zoology	—	—	3x	x
Zool. 114—Comparative Anatomy of Vertebrates	x	—	4x	4
Zool. 135—Mammalogy	x	—	x	—
Zool. 160—Embryology	x	—	4x	4
Zool. 165—Ornithology	x	—	x	—
Zool. 170—Entomology	x	x	x	x
Zool. 199—Special Problems in Zoology	x	—	x	—
Elective in Biological Sciences	—	—	x	x
(Six units of nonprofessional courses in wildlife management may be substituted for six units of the courses listed above, for biology and zoology majors.)				
Chem. 105—Quantitative Analysis	—	—	—	3
Chem. 108—Organic Chemistry Lectures	3	3	3	3
Chem. 109—Organic Chemistry Laboratory	—	—	x	3
Chem. 130—Biochemistry	—	—	—	3
Electives to total	124	124	124	124
Total upper division required	40	40	40	40
Scholarship requirements:				
In all work taken	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00

Note for Premedical Students—

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For premedical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances, students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for their associate in arts degree, and must also include 8 units in a modern foreign language as part of the 16 units required.

* Biology majors should not take more than 15 units in either zoology or botany.

Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, premedical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

Many medical schools are now requiring all candidates to have taken the medical college admission test during the year previous to expected admission. The student should consult his adviser about this test.

The prescribed course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this college.

WILDLIFE MANAGEMENT AND CONSERVATION CURRICULUMS

High school students who plan to pursue game management or fisheries will find it advantageous to have completed elementary algebra, plane geometry, and trigonometry in high school.

Junior college or transfer students who plan to enroll in game management or fisheries will be able to complete the course in a minimum amount of time if elementary algebra, plane geometry, trigonometry, general chemistry, English, statistics, general botany, and/or general zoology have been completed in the lower division.

DEGREE REQUIREMENTS IN GAME MANAGEMENT AND FISHERIES

<i>Requirements for B.S. Degree with Major in</i>	<i>Game Management</i>	<i>Fisheries</i>
Lower Division		
Major:	Units	Units
W.M. 2—Natural Resource Conservation	3	3
F. 30—Fish Culture	—	3
Bot. 1B—General Botany	4	4
Chem. 1B—General Chemistry	5	5
Zool. 1A-1B—General Zoology	8	8
General Education (to be fulfilled in addition to all requirements for the major.)		
Engl. 1A-1B—First-year Reading and Composition	6	6
H.&H.—Personal Health and Safety	2	2
Literature, Philosophy or Arts	6	6
(Fine and applied arts not to exceed three of the six)		
Natural Sciences	9	9
Bot. 1A—General Botany (4)		
Chem. 1A—General Chemistry (5)		
Physical Education Activities	2	2
Psych. 1—General Psychology	3	3
Social Sciences	9	9
(In at least two social science fields, including:		
Econ. 1—Introduction to Economics		
Econ. 40—Elementary Statistics		
Fulfillment of requirement in United States history and constitution. See page 42.)		
Spch. 1—Fundamentals of Speech	3	3
Restricted Electives	5	5
(Chosen from the above general education fields or from mathematics, family life education, or not more than six units of foreign language.)		
Other Requirements:		
Math. D or equivalent	3	3
A.D. 1—Introduction to Soil Science	3	—
F.-L. 1—Introduction to Forestry and Lumbering	3	—

DEGREE REQUIREMENTS IN GAME MANAGEMENT AND FISHERIES—Continued

<i>Requirements for B.S. Degree with Major in</i>		<i>Game Management</i>	<i>Fish- eries</i>
Upper Division			
Major:		<i>Units</i>	<i>Units</i>
F. 131—Management of Game Fish.....		3	3
F. 132—Commercial Fisheries.....		—	3
F. 136A-136B—Ichthyology.....		—	6
F. 141—Hydrobiology.....		—	4
W.M. 120—Principles of Wildlife Management.....		3	3
G. 150—Management of Big Game.....		3	—
G. 152—Management of Fur Bearers.....		3	—
G. 171A—Management of Waterfowl.....		3	—
G. 171B—Management of Upland Game Birds.....		3	—
W.M. 125—Field Problems.....		1-3	1-3
Biol. 101—Marine Biology (or Zool. 112, Invertebrate Zoology).....		—	3
Biol. 107—Ecology.....		3	—
Biol. 114—Heredity and Evolution.....		3x	3
Bot. 110A-110B—Plant Taxonomy.....		6	—
Physiol. 101—Mammalian Physiology.....		3x	3
Physiol. 102—Physiology Laboratory.....		—	2
Zool. 114—Comparative Anatomy of Vertebrates.....		4x	4
Zool. 135—Mammalogy.....		3	—
Zool. 160—Embryology.....		4x	4
Zool. 165—Ornithology.....		3	—
Game students take two out of the four courses designated by an "x."			
Other Requirements:			
Electives to total.....		128	128
Scholarship Requirements:			
In all work taken.....		1.00	1.00
In major.....		1.00	1.00

Recommended Electives (Game Management) :

W.M. 5, Wildlife Techniques; Physiol. 102, Physiology Laboratory; Biol. 115, Genetics Laboratory; W.M. 126, field trip; W.M. 180, Wildlife Administration; A.D. 2, Pasture and Range Management; Engl. 109, Report Writing; W.M. 85, Game Law Enforcement; W.M. 185, Problems and Practices of Law Enforcement; Fish. 136, Ichthyology; Zool. 170, Entomology; Zool. 114, Comparative Anatomy; Zool. 160, Embryology; Math. 1, College Algebra; F.L. 20, Forest Management; F.L. 5, Dendrology; Geol. 1A, Physical Geology.

Recommended Electives (Fisheries) :

Biol. 101, Advanced Marine Biology; Anat. 66, Human Anatomy; Biol. 103, Micro-technique; B.A. 109, Business Correspondence; Chem. 108, Organic Chemistry; Art 22, Nature Drawing; B.A. 2, Typing; Zool. 170, Entomology; Biol. 107, Ecology; Foreign Language; H.Ec. 20, General Nutrition; and Art 50, Photography.

GENERAL SECONDARY REQUIREMENTS IN CONSERVATION EDUCATION

Course numbers and titles

Lower Division		
Major:		<i>Units</i>
W.M. 2—Natural Resource Conservation.....		3
Biol. 10A—General Biology.....		3
Biol. 11A-11B—General Biology Laboratory.....		2
Electives in Agriculture and Forestry.....		6

GENERAL SECONDARY REQUIREMENTS IN CONSERVATION EDUCATION—Continued

	Units
General Education:	
Engl. 1A—First-year Reading and Composition	3
Geol. 1A—General Geology	3
Biol. 10B—General Biology	3
Chem. 2A-2B—Introduction to Chemistry (or Chem. 1A plus high school chemistry)	6
H.&H. 1—Personal Health and Safety	2
Literature, Philosophy, or Arts	6
(Fine and Applied Arts not to exceed three of the six)	
Social Science	10
(including fulfillment of requirement in United States history and constitution. See page 42.)	
Psych. 1—General Psychology	3
Spch. 1—Fundamentals of Speech	3
Physical Education Activities	2
Restricted Electives	7
Other Requirements:	
Educ. 1—Introduction to Teaching	1

Upper Division

Major:	
Physiol. 101—Mammalian Physiology	3
Physiol. 102—Physiology Laboratory	2
W.M. 120—Principles of Wildlife Management	3
Bot. 110A—Taxonomy	3
Plus three courses to equal nine units chosen from the following:	
Fish 131—Management of Game Fish	
Fish 141—Hydrobiology	
Zool. 135—Mammalogy	
Zool. 170—Entomology	
Biol. 101—Marine Biology	
Biol. 107—Ecology	
Biol. 114—Heredity and Evolution	
Game 150—Management of Big Game	
Game 171A—Management of Waterfowl	
Game 171B—Management of Upland Game Birds	
Bot. 110A—Plant Taxonomy	
Zool. 165—Ornithology	
Courses to complete a minimum of 12 units for the 20 unit teaching minor.	

Education:

Educ. 113—Psychological and Social Foundation of Education	5
Educ. 153—Audio-Visual Education	3
Educ. 175—Core Courses in Secondary Education	5

Other Requirements:

Electives to total	124
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Graduate Year

Educ. 181C or 181S—The Teaching of Conservation, or The Teaching of Science	2
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 370A-370B—Student Teaching in the Secondary School	3-3
Completion of the minor if not completed before the B. S. Degree.	
Subject Electives, a minimum of	6
Electives to total	30

JUNIOR HIGH SCHOOL AND GENERAL SECONDARY CREDENTIAL MINOR
REQUIREMENTS IN BIOLOGICAL SCIENCES

<i>Junior High School Major in Biological Science*</i>	<i>Minor for Candidates for General Secondary Credential†</i>	
Lower Division	A minimum of 20 units in courses approved by the division chairman.	
Biol. 10A-10B_ 6 units	Biological Science	Physical Science
Electives ---- 6 units	Biol. 10A-10B_ 6 units	Chem. 1A-1B_ 10 units
Upper Division	Physiol. 1, 2 or	or
12 units of Upper	101, 102, 3-5 units	Chem. 2A-2B_ 6 units
Division Biology,		
Botany, or Zool-	Biol. 101 ---- 3 units	Phys. 2A-2B_ 6 units
ogy -----12 units	Bot. 110A ---- 3 units	Phys. 3A-3B_ 2 units
	Zool. 135 ---- 3 units	Phys. 171 ---- 3 units
	Zool. 165 ---- 3 units	Geol. 1A ---- 3 units
Total units	Total units	Total units
required ---24 units	required ---20 units	required -- 20 units

REQUIREMENTS FOR LIBERAL ARTS MINORS IN BIOLOGICAL SCIENCES ‡

<i>Biology Minor</i>	<i>Botany Minor</i>
Lower Division	
Biology 10A-10B ----- 6 units	Botany 1A-1B ----- 8 units
Upper Division	
Chosen from :	Chosen from :
Biology	Biol. 101
Botany, or	Biol. 114, or
Zoology ----- 6 units	Any U. D. Botany ----- 6 units
Total units required -----12 units	Total units required ----- 14 units

Zoology Minor

Lower Division
Zoology 1A-1B 8 units
or
Biology
10A-10B --- 6 units
and Elective-- 3 units
Upper Division
6 units chosen from—
Any U. D. Zoology
Biology 101
Biology 114_ 6 units
Total units
required_ 14-15 units

* Additional requirements for the junior high school credential are given in detail on pages 74-75.

† The sequences of courses given are examples of approved minors.

‡ For elementary credential candidates.

DESCRIPTION OF COURSES

AGRICULTURE

1. Introduction to Soil Science 3 units

Formation, classification, profile, structure and texture of soils. Principles of fertility, moisture and acidity in relation to crop growth. Problems of soil mapping and soil testing.

2. Pasture and Range Management 3 units

Classification of range grasses and browse. Methods of establishing and improving pastures and ranges. Techniques of grazing controls. Designed for agriculture, forestry, and wildlife students.

10. Introduction to Animal Husbandry 3 units

Relation of livestock to agriculture and human welfare. Beef cattle and sheep selection, judging, markets, market classification, breeding and management.

20. Dairy Husbandry 3 units

Selection, judging, breeding, feeding and management of dairy cattle. Problems involved in market milk and cream production.

21. Dairy Manufacturing 3 units

Organization of dairy industry, composition, and properties of milk, methods of testing, and manufacturing dairy products.

30. Farm Mechanics 3 units

Care, use and conditioning of hand tools. Elements of soldering, glazing, hot and cold metal, plumbing, electric wiring, concrete, carpentry, and painting.

31. Farm Mechanics 3 units

Selection of equipment and development of skills in the use of arc and acetylene welders. Design and construction of farm labor-saving devices. Study of farm machinery, its construction and maintenance.

33. Irrigation and Drainage 3 units

Water movement and functions in the soil. Principles and practices of sprinkler and surface irrigation. Design of drainage systems.

34. Farm Utilities 3 units

Heating, ventilation, milk refrigeration, water supply, sewage disposal, and other farm engineering problems.

41. Farm Management 3 units

Application of economic principles in selection, organization, and management of a farm. Principles of farm accounting, farm law, and farm appraisal.

50. Agriculture Orientation and Vocations 1 unit

Curriculum study of fields of agriculture and a brief review of types of farming in California.

51. Field Trip 1 unit

One-week tour of selected areas in California, studying production farming, packing, processing and manufacturing plants in the agricultural industry.

70. Horticulture and Landscaping 3 units

Principles and practices of home production of fruits and berries; improvement of home and public grounds.

ANTHROPOLOGY

1A. Physical Anthropology 3 units

The origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

BACTERIOLOGY**Lower Division**

1. General Bacteriology 3-5 units

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures per week.

2. General Bacteriology Laboratory 2 units

Laboratory work to accompany Bacteriology 1.

Upper Division

101. General Bacteriology 3 units

A more advanced course for Biological Science majors and other upper division students.

102. General Bacteriology Laboratory 2 units

Laboratory work to accompany Bacteriology 101.

BIOLOGY**Lower Division**

- 10A-10B. General Biology (year) 3-3 units

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B or Physiology 1.

Two one-hour periods and one three-hour laboratory period per week.

- 11A-11B. General Biology Laboratory 2-2 units

Additional work in biology for life science majors to accompany Biology 10A and 10B, but not necessarily taken concurrently.

Upper Division

Prerequisite to all upper division biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

101. Marine Biology 3 units

The habits, classification, development, and adaptations of marine life, with particular reference to the ecology of the Humboldt coast.

Two one-hour lectures and one three-hour laboratory period or field trip per week.

103. Microtechnique 2 or 3 units

Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.

Two or three three-hour periods per week.

107. Ecology 3 units

A study of the important principles governing the relationships between plants, animals and their environment. Consideration of specific marine, shore, dune and forest communities in the Humboldt Bay area. Week-end field trips are an essential part of the course.

Two one-hour lectures, and one three-hour field trip or laboratory period per week.

114. Heredity and Evolution 3 units

The study of the principles of genetics as applied to animals and plants followed by a consideration of genetic mechanisms concerned in evolution.

115. Genetics Laboratory

1 unit

One three-hour laboratory in genetics to accompany Biology 114.

199. Special Problems

1-3 units

Limited to majors in biological sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

BOTANY

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental for all students in the plant sciences and are basic courses for such occupations as the following: plant pathologist, bacteriologist, forester, forest pathologist, farm adviser, high school science teacher, agriculturist, nurseryman, landscape gardener or architect, florist, seedsman, horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

Lower Division

1A-1B. General Botany (year)

4-4 units

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and consent of instructor.

110A-110B. Plant Taxonomy (year)

3-3 units

First semester: Forest botany with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants, adaptation, structure, classification, and geographical distribution; range botany.

One one-hour lecture and two three-hour laboratory periods per week.

114. Ornamental Plants

3 units

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

199. Special Problems

1-3 units

Individual work in botany for upper division students who show special aptitude. Conference, reading, and research.

FORESTRY-LUMBERING

Lower Division

1. Introduction to Forestry and Lumbering

3 units

History of the lumber industry; development of forestry as a profession; aspects of the lumber industry in forest, mill, market; basic economic feature of the industry, such as size, location, competitive aspects; job possibilities in the various branches of federal, state, and private forestry and lumber industries.

Three one-hour lectures.

5. Dendrology

3 units

Development of forests emphasizing trees and shrubs in the United States, the trees of Northern California—including hardwoods; consideration of trees of commercial importance; range, botanical characteristics of trees.

Two one-hour lectures and two two-hour laboratory periods.

10. Forest Protection**3 units**

Importance of protecting forests from fires; factors affecting forest situation; causes of fires and means of prevention; fire detection systems; methods of suppression and control of fires; tree diseases and tree killing insects.

Two one-hour lectures, and one three-hour laboratory period.

20. Forest Management**3 units**

Aims of forest management; financing of forest operations; preparation and implementation of plans for conservation and perpetual yield; understanding of the basic principles of silviculture; techniques of conservation.

Three one-hour lectures.

30. Woods Operations**3 units**

Planning of woods operations; methods of rigging and logging; characteristics of saw logs, veneer logs, and pulp logs; operation and maintenance of logging machines.

Two one-hour lectures, and one three-hour laboratory.

32A-32B. Forest Engineering**3-3 units**

Measuring distance, direction, elevation. Use of compass, chain and abney. General Land Office procedures. Transit traverse, direct and indirect leveling, topographic surveying, computing and plotting data, map construction, interpretation.

Two lectures, one three-hour laboratory period.

40. Forest and Lumber Mensuration**4 units**

Methods of measuring the volume and growth of standing trees; measuring the contents of felled timber; deck scaling; profitable log lengths.

Three one-hour lectures and one three-hour laboratory period.

50. Principles of Lumber Manufacturing**3 units**

Principles of manufacture of lumber products; mill pond operation; dry log storage; methods of sawing logs; remanufacturing methods; operation and maintenance of machines used in lumber manufacture; seasoning of wood including kiln operation; personnel management; plant management; plant transportation problems.

Two one-hour lectures and one three-hour laboratory.

55. Lumber Grading**2 units**

Lumber grading rules and their application; uses for the various grades of lumber.

Two one-hour lectures.

60. Wood Products and Technology**3 units**

Relation of the tree to its products; pulp, paper, poles, posts; chemical utilization, preservation methods, gluing of woods; plywood and wood substitutes; structure, properties, and specific uses of various woods.

Three one-hour lectures.

70. Lumber Marketing**3 units**

Methods of distribution; direct sales; work of wholesalers; commission men, and retail yards; records and reports necessary for sales; problems of transportation, including rates; routing, and loading.

PHYSIOLOGY AND ANATOMY**Lower Division****1. Elementary Physiology****3 units**

Human physiology designed primarily for students in home economics, nursing, physical education and curriculums other than biological sciences. Basic biological nature of man considered with reference to anatomy organ systems.

Two one-hour lectures and one two-hour laboratory-demonstration per week.

2. Physiology Laboratory**2 units**

Laboratory work to accompany Physiology 1.

50. Survey of Physiology and Anatomy **5 units**

Physiology and anatomy combined, designed to meet the requirements of physical education majors. Prerequisites: Zoology 1A and high school chemistry or Chemistry 2A.

Four one-hour lectures and one three-hour laboratory period per week.

66. Human Anatomy **3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

Three one-hour lectures per week.

Upper Division

Prerequisite to upper division work: Zoology 1A, or Physiology 1, or Biology 10A-10B, and Chemistry 1A-1B or 2A-2B.

101. Mammalian Physiology **3 units**

An advanced course stressing those features of human physiology that are of widespread importance among all Mammalia and, in many cases, other animal and plant groups. Primarily for students majoring in the biological sciences.

Three one-hour lectures per week.

102. Physiology Laboratory **2 units**

Experimental work to accompany Physiology 101.

Two three-hour laboratory periods per week.

WILDLIFE MANAGEMENT AND CONSERVATION

Lower Division

2. Natural Resource Conservation **3 units**

The broad aspects of natural resources conservation. History of man in relation to land use; human populations in relation to resources; history of the conservation movement; present day conservation problems.

Three one-hour periods per week.

5. Wildlife Techniques **3 units**

Field and laboratory techniques used in wildlife management, including collection, preparation, and preservation of specimens.

One hour lecture and two three-hour laboratory or field periods per week.

85. Game Law Enforcement **2 units**

To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work.

One two-hour lecture and laboratory period per week.

Upper Division

120. Principles of Wildlife Management **3 units**

Principles of plant and animal ecology from the standpoint of wildlife management; population dynamics; basic wildlife philosophy.

Three one-hour lecture periods per week.

125. Field Problems **1-3 units**

Individual work on specific problems involving fish and game management.

126. Field Trip **1 unit**

Group tour of important fish and game management developments in California. Eight days during spring vacation.

180. Wildlife Administration**2 units**

Organization, financing and supervision of federal, state and private wildlife programs. Analysis of wildlife problems and public relations. Study of administrative practices, procedure and personnel management.

Two one-hour periods per week.

Prerequisite: Senior standing.

185. Problems and Practices of Law Enforcement**2 units**

The laws and practices governing seizure, identification, and presentation of evidence. Includes a study of both federal and state game laws. Provides opportunity for practical experience and field work.

One two-hour period per week.

199. Special Problems**1-3 units**

Individual study on selected problems in the Wildlife field for upper division students who have demonstrated outstanding ability and interest.

FISHERIES**Lower Division****30. Fish Culture****3 units**

The artificial propagation of trout, salmon, and steelhead; water manipulation, and disease control. Laboratory periods are conducted in the fish hatchery. Each student will have the personal responsibility for rearing several thousand fish.

Two one-hour lecture periods and one three-hour laboratory period per week.

Upper Division**131. Management of Game Fish****3 units**

The fresh-water game fishes of North America with special reference to trout and salmon. Stream and lake management and farm fish pond management.

Two one-hour lectures and one three-hour laboratory period per week.

132. Commercial Fisheries**3 units**

The biology and management of important marine fish and shellfish. Trips at sea on commercial vessels to observe harvesting methods.

Two one-hour lecture periods and one three-hour laboratory period per week.

Prerequisite: Consent of the instructor.

136A-136B. Ichthyology (year)**3-3 units**

The classification, evolution, distribution, anatomy, physiology, and ecology of fishes. Particular attention to groups that are of economic and recreational importance.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zool. 1A-1B.

141. Hydrobiology**4 units**

The study of the relationships between aquatic organisms and their environment. Deals with physical, chemical, and biological phenomena of fresh and marine waters.

Stream and lake surveys and pollution studies are included in field work.

Two one-hour lectures and two three-hour laboratory periods per week.

Prerequisite: Chem. 1A or Chem. 2A.

199. Special Problems**1-3 units**

Individual study on selected problems in the fisheries field for upper division students who have demonstrated outstanding ability and interest.

GAME MANAGEMENT**Upper Division****150. Management of Big Game****3 units**

Species of big game mammals; their life histories, distribution, management, conservation, values. Field trips for the study of important species in their natural habitats.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zoology 135 and W.M. 120.

- 152. Management of Small Game Mammals and Furbearers** **3 units**
 Species of furbearers and small game mammals; their life histories and management. Emphasis on wild species.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisites: W.M. 120 and Zool. 1A-1B.

- 171A. Management of Waterfowl** **3 units**
 Waterfowl, and allied species, their life histories, ecology, and management in North America. Operation of duck banding station along with practical study of the important waterfowl food and cover plants.
 Two one-hour lectures, and one three-hour laboratory period per week.
 Prerequisite: W.M. 120 and Zool. 1A-1B.

- 171B. Management of Upland Game Birds** **3 units**
 Upland game birds, their life histories and management in the United States.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisite: Zoology 165 and W.M. 120.

ZOOLOGY

Lower Division

- 1A-1B. General Zoology (year)** **4-4 units**
 A year course dealing with principles of animal biology together with a review of representative animal forms.
 Two one-hour lectures and two three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and consent of instructor.

- 112. Invertebrate Zoology** **3 units**
 A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.
 Two one-hour lectures and one three-hour laboratory period per week.

- 114. Comparative Anatomy of Vertebrates** **4 units**
 Two one-hour lectures and one three-hour laboratory period per week.

- 135. Mammalogy** **3 units**
 Study of the classification, anatomy, distribution, and life histories of mammals.
 Two one-hour lectures and one three-hour laboratory period per week.

- 160. Embryology** **4 units**
 The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.
 Two one-hour lectures and two three-hour laboratory and demonstration periods per week.

- 165. Ornithology** **3 units**
 Classification, life histories, migration, habits, and special modifications of birds. Identification in field and laboratory.
 Two one-hour lectures and one three-hour laboratory period per week.

- 170. Entomology** **3 units**
 The classification, life histories, distribution, and control of insects, with special application to agriculture, game and fish management.
 Two lectures and one three-hour laboratory period.

- 199. Special Problems** **1-3 units**
 Individual work in zoology for upper division students who show special aptitude. Conference, reading, and research.

Graduate Division**Biology 201A-201B. Advanced Field Biology 3-3 units**

Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae 3 units

Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology 3 units

An advanced course dealing with problems in marine ecology, classification, and life histories.

PHYSICAL SCIENCES**5A-5B. Fundamentals of the Physical Sciences (year) 3-3 units**

First Semester: Astronomy and weather, light and sound, geology.

Second Semester: Practical application; communication; transportation.

Prerequisite: A reasonable proficiency in arithmetic as evidenced by a passing score on a standard test.

5A is not prerequisite to 5B.

Two one-and-one-half-hour lectures or demonstration periods per week.

CHEMISTRY

A maximum of 10 units will be allowed toward the bachelor's degree in lower division general chemistry.

Lower Division**1A-1B. General Inorganic Chemistry (year) 5-5 units**

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or physics, and at least two years of high school mathematics; or four years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

2A-2B. Introduction to Chemistry (year) 3-3 units

An elementary course in general chemistry, designed for majors in nursing, physical education, and home economics. Emphasis on chemical principles rather than mathematical applications.

Two one-hour lecture periods and one three-hour laboratory period per week.

(Chemistry 2B given only on demand.)

Upper Division**105. Quantitative Analysis 3 units**

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

One lecture and two three-hour laboratory periods per week.

Prerequisite: Chemistry 1B with grade of "C" or higher and facility in the use of slide rule and logarithms.

108. Organic Chemistry Lectures 3 units

A survey of the carbon compounds.

Prerequisite: Chemistry 1A with a grade of "C" or higher; Chemistry 1B recommended.

Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (spring) 3 units

Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.

Two one-hour discussion periods and two three-hour laboratory periods per week.

130. Elementary Biochemistry

4 units

A study of carbohydrates, proteins, fats, enzymes, hormones, vitamins, steroids and simple biochemical processes.

Prerequisite: Chemistry 108 and 109 with a grade of "C" or higher.

Three one-hour lecture periods and one three-hour laboratory period per week (Chemistry 130 will be given only on demand.)

GEOLOGY

1A. General Geology

3 units

A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.

Two one-hour lecture periods per week, and one three-hour laboratory period or field trip per week.

PHYSICS

Lower Division

A maximum of 12 units will be allowed toward the bachelor's degree in lower division general physics.

2A-2B. General Physics Lecture (year)

3-3 units

A general survey of physics for nonengineering students. Emphasis on quantitative and mathematical aspects are minimized. Mechanics, properties of matter, heat, sound, light and color, magnetism and electricity, modern physics.

Three one-hour lecture and demonstration periods and one one-hour discussion period per week.

Prerequisite: Mathematics C. (May be taken concurrently.)

3A-3B. General Physics Laboratory (year)

1-1 unit

Experimental work to accompany Physics 2A-2B.

One three-hour laboratory period per week.

4A. General Physics

4 units

Mechanics and properties of matter.

Two lectures, one three-hour laboratory, and one three-hour computation period per week.

Prerequisite: Mathematics 3A-3B, or its equivalent.

Mathematics 3B may be taken concurrently.

4B. General Physics

4 units

Magnetism, electricity, and modern physics.

Prerequisite: Physics 4A. Mathematics 4A or 104A.

Three lectures and one three-hour laboratory period per week.

4C. General Physics

4 units

Wave motion, heat, sound, and light.

Prerequisite: Physics 4A, Mathematics 4A or 104A (may be taken concurrently).

Three lectures and one three-hour laboratory period per week.

30. Elementary Meteorology

3 units

Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.

71. Introduction to Radio

3 units

Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.

One lecture and two three-hour laboratory periods per week.

Upper Division**104A-104B-104C. General Physics****4-4-4 units**

See Physics 4A-4B-4C. For General Secondary Credential candidates only.

105. Statics**3 units**

Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses. Fulfills Engineering 35 requirement of the University of California.

Prerequisite: Physics 4A and Mathematics 4A, or 104A, 4B or 104B. (104B may be taken concurrently.)

161. Electrical Measurements**3 units**

Theory and practice in methods of measurement of resistance, electromotive force, capacitance, inductance and frequency; using direct current, and alternating current of both audio and radio frequency.

One lecture and two three-hour laboratory periods per week.

Prerequisite: Mathematics 4B, Physics 4A-4B-4C or equivalent.

170. Electronics**2-3 units**

Nonradio applications of electronic tubes; theory and operation.

Prerequisite: Mathematics 4B, Physics 4ABC or equivalent.

One lecture and two three-hour laboratory periods per week.

171. Fundamentals of Radio**3 units**

Principles of transmission, propagation and reception of radio waves. Circuit analysis and measurement. Construction and operation of transmitting, receiving and measuring equipment.

Two lectures and one three-hour laboratory period per week.

Prerequisites: Mathematics 4B, Physics 4ABC or equivalent.

175. Modern Physics**3 units**

An introduction to atomic and nuclear physics. The electron, radio-activity, thermionic emission, the photoelectric effect, gaseous conduction, x-rays, structure of the atom, and interpretation of spectra.

Prerequisite: Mathematics 4B, Physics 4ABC or equivalent.

Two lectures and one three-hour laboratory period per week.

ENGINEERING

NOTE: The term engineering is used at Humboldt State College to describe pre-engineering offerings at the lower division level for university transfer.

1A-1B. Plane Surveying (year)**3-3 units**

Principles, field practice, calculation, and mapping.

Prerequisite: Plane trigonometry and Industrial Arts 7A or its equivalent.

Two one-hour lecture and one three-hour laboratory periods per week.

8. Materials of Engineering Construction**2 units**

Structural properties and adaptability of various materials.

Prerequisite: Sophomore standing in Engineering.

Two one-hour periods per week.

22. Engineering Drawing**2 units**

Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.

Prerequisite: Industrial Arts 7A (or a year of high school mechanical drawing).

Six hours per week, drafting laboratory.

23. Descriptive Geometry**2 units**

Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.

Prerequisite: Engineering 22.

Six hours per week, drafting laboratory.

24. Advanced Engineering Drawing

2 units

Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.

Prerequisite: Engineering 23.

Six hours per week, drafting laboratory.

40. Engineering Metallurgy

3 units

Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.

Prerequisite: Physics 4A.

Two lectures and one three-hour laboratory period per week.

41. Manufacturing Processes

4 units

Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.

Prerequisite: Engineering 23 and 40.

Two lectures and two three-hour laboratory periods per week.

THE MATHEMATICS CURRICULUM

JUNIOR HIGH SCHOOL CREDENTIAL AND MINOR REQUIREMENTS IN MATHEMATICS

<i>Junior High School Major*</i>	<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
	Lower Division	
Math. 3A-3B ---- 6 units	Math. 3A-3B ---- 6 units	A minimum of 20 units in courses approved by the Division Chairman
Electives ----- 6 units		
	Upper Division	
Math. 101A-101B 6 units	Math. 104A-104B 6 units	
Math. 104A-104B 6 units		
Total units	Total units	†Total units
required ---24 units	required ---12 units	required ---20 units

The requirements for a teaching major in mathematics includes 36 units with at least 12 units in the upper division and should include mathematics 101A and 101B. The mathematics major may include College Algebra, Statistics, Civil Engineering, Mathematics of Finance, Slide Rule, Engineering 22 and 23, Engineering 35-135, and Physics not used to satisfy some other requirement.

DESCRIPTION OF COURSES

Lower Division

‡C. Trigonometry

3 units

Plane trigonometry.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

‡D. Intermediate Algebra

3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binominal theorem. Not applicable toward a minor in mathematics.

Prerequisite: One year of high school algebra.

Three one-hour periods per week.

* Other requirements for the junior high school credential are given on pages 74 and 75.

† Courses involving the direct application of mathematics, such as accounting, statistics, plane surveying and mathematics of finance, may be included in the mathematics minor for the secondary credential.

‡ No more than 2 units will be allowed in these courses if they have previously been taken in high school with a grade of "C" or better.

1. College Algebra **3 units**
 Theory of equations; determinants; equations of third and fourth degrees.
 Prerequisite: Mathematics C and D, or equivalent.
 Three one-hour periods per week.

3A. Analytic Geometry and Calculus **3 units**
 Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.
 Prerequisite: Mathematics C.
 Three one-hour periods per week.

3B. Analytic Geometry and Calculus **3 units**
 A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.
 Prerequisite: Mathematics 3A.
 Three one-hour periods per week.

50. Slide Rule Computation **1 unit**
 Theory and practice of the slide rule, from simple multiplication and division through trigonometric calculations and exponential equations.
 One one-hour period per week.

Upper Division

101A. Elementary Mathematics for Advanced Students **3 units**
 Selected topics in algebra and geometry with particular emphasis upon historical development. Designed for students who are preparing to teach mathematics in secondary schools.
 Prerequisite: Mathematics 104A-104B, 1.
 Three one-hour periods per week.

101B. Elementary Mathematics for Advanced Students **3 units**
 A continuation of course 101A.
 Prerequisite: Mathematics 104A-104B, 1. 101A is not prerequisite to 101B.
 Three one-hour periods per week.

104A-104B. Integral Calculus and Solid Analytics (year) **3-3 units**
 First semester continues development of integration and series.
 Second semester continues partial differentiation, quadric surfaces and multiple integration.
 Prerequisite: Mathematics 3A-3B.
 Three one-hour periods per week.

110A-110B. Advanced Engineering Mathematics **2-2 units**
 Differential equations, Fourier series, conjugate functions, hyperbolic functions.
 Prerequisite: Math. 4A-4B.

THE DIVISION OF SOCIAL SCIENCE

Economics
Geography
History

Philosophy
Political Science
Public Administration

Social Service
Sociology

OBJECTIVES

The objectives of this division are:

1. To contribute to the general education of all students, especially to an understanding of those institutions and problems that relate to the intelligent exercise of the duties of citizenship. This objective is especially important for future teachers.
2. To acquaint students with the truest and most realistic knowledge that is possible of the community, State, Nation, and the world in which they are to live and make their way.
3. To prepare students for promoting a wiser and more effective interracial, interreligious, and intereconomic cooperation among individuals, groups, communities, states, and nations.
4. To develop character by giving the students a love of truth, an appreciation of the beautiful, a bent toward the good, and a desire and will to use knowledge for beneficent social ends.
5. To train students in the intellectual processes indispensable to the functioning of society.

CURRICULUMS

The Division of Social Science offers curriculums leading to

1. The M. A. degree in the Social Sciences.
2. General Secondary Credential, authorizing service in the secondary schools of the State. This program involves a year of graduate work. Majors are available in the social sciences.
3. The A.B. degree with majors in
 - (a) Social science, providing a cultural education emphasizing the social studies.
 - (b) Social service, for those interested in social welfare work.
 - (c) Economics, affording preparation for graduate study or employment in industry or government service.
 - (d) History, for students interested in graduate work in this specialized field.
 - (e) Political science, affording preparation for graduate study or government service.
 - (f) Sociology, affording preparation for graduate study or government service.

THE MASTER OF ARTS DEGREE

The Master of Arts degree in the Social Sciences will be conferred upon students who meet the specific requirements described in detail on pages 33-40.

THE SOCIAL SCIENCE CURRICULUM

DEGREE AND GENERAL SECONDARY CREDENTIAL REQUIREMENTS IN SOCIAL SCIENCE

Course numbers and titles

Lower Division		
Major:		Units
Econ. 1—Introduction to Economics	-----	3
Econ. 10—Economic Principles	-----	3
Hist. 4A-4B—History of Western Civilization	-----	6
General Education: (To be fulfilled in addition to all requirements for the major)		
Engl. 1A—First-year Reading and Composition	-----	3
H. & H. 1—Personal Health and Safety	-----	2
Literature, Philosophy or the Arts	-----	6
(Fine and applied arts not to exceed three of the six)		
Natural Sciences	-----	9
(Including one biological and one physical science)		
Physical Education Activities	-----	2
Psych. 1—General Psychology	-----	3
Social Sciences	-----	9
(Including:		
Pol. Sci. 1A-1B—Introduction to Government, or		
Soc. 1A-1B—Introduction to Sociology		
Fulfillment of requirement in United States history and Constitution.		
(See page 42.)		
Spch. 1—Fundamentals of Speech	-----	3
Restricted electives	-----	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)		
Other Requirements:		
Educ. 1—Introduction to Teaching	-----	1
Completion of lower division requirements for a minor	-----	6-20 *
Upper Division		
Major:		Units
U. D. Economics—Electives	-----	6 †
U. D. History—Electives	-----	6 †
U. D. Economics or History	-----	12
NOTE: If the student elects history as his field of emphasis, his program must include the following:		
Hist. 197—Aids to Historical Research or		
Hist. 198—History and Historians	-----	1 unit
Hist. 196—Special Studies in History	-----	2 units
Other Requirements:		
Educ. 113—Psychological and Social Foundations of Education	-----	5
Educ. 153—Audio-Visual Education	-----	2
Educ. 175—Core Course in Secondary Education	-----	5
Educ. 181SS—The Teaching of Social Studies	-----	2
Completion of upper division requirements for a minor	-----	0-6 †
Electives to total	-----	124
Total upper division required	-----	40

* See pages 41-42. Part of the work required for a teaching minor may be completed in the graduate year.

† Students may substitute for either the history or the economics but not for both six units chosen from either upper division sociology or political science.

DEGREE AND GENERAL SECONDARY REQUIREMENTS IN SOCIAL SCIENCE—Continued

Scholarship Requirements:

In all work taken	1.00
In major and minor	1.00
In each education course taken	1.00
For admission to the Graduate Division:	
In major (upper and lower division)	1.5
In all upper division work taken	1.5

Graduate Year*Units*

A year course in either economics or history (graduate course)	6
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 370A-370B—Student Teaching in the Secondary School	6
Major or minor or electives (upper division or graduate courses) to total	30
Scholarship requirement (all work in graduate year)	1.75

DEGREE REQUIREMENTS IN SOCIAL SCIENCE MAJOR FIELDS

*Liberal Arts **

<i>So- cial Science</i>	<i>Eco- nomics</i>	<i>His- tory</i>	<i>Social Serv- ice</i>	<i>So- ciol- ogy</i>	<i>Po- litical Science</i>
<i>(Without a teaching credential)</i>					

*Course numbers and titles***Lower Division***Units Units Units Units Units Units***Major:**

Econ. 1—Introduction to Economics	3	3	—	3	3	—
Econ. 10—Economic Principles	3	3	—	3	3	—
Econ. 40—Elementary Statistics	—	3	—	3*	3	—
Hist. 4A-4B—History of Western Civilization	6	—	6	—	—	6
Hist. 8A-8B—History of the Americas	—	—	6	—	—	—
Soc. 1A-1B—Introduction to Sociology	—	—	—	6	6	—
Pol. Sci. 1A-1B—Introduction to Government	—	—	—	—	—	6

General Education: (To be fulfilled in addition to all requirements for the major)

Engl. 1A—First-year Reading and Composition	3	3	3	3	3	3
Engl. 1B—First-year Reading and Composition	3*	3*	3*	3*	3*	3*
H. & H. 1—Personal Health and Safety	2	2	2	2	2	2
Literature, Philosophy, or the Arts (Fine and applied arts not to exceed three of the six)	6	6	6	6	6	6
Natural Sciences (Including one biological and one physical science)	9	9	9	9	9	9

* Starred courses are recommended but not required.

DEGREE REQUIREMENTS IN SOCIAL SCIENCE MAJOR FIELDS—Continued

Course numbers and titles	Liberal Arts*					
	Social Science	Eco- nomics	His- tory	Social Serv- ice	So- ciol- ogy	Pol- itical Science
	(Without a teaching credential)					
	Units	Units	Units	Units	Units	Units
Physical Education Activities-----	2	2	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3	3	3
Social Science -----	9	9	9	9	9	9
Including:						
Econ. 1—Introduction to Eco- nomics -----	—	—	(3)*	—	—	(3)*
Econ. 10—Economic Principles—	—	—	(3)*	—	—	(3)*
Pol. Sci. 1A-1B—Introduction to Government or -----	(6)	—	—	—	—	—
Soc. 1A-1B—Introduction to So- ciology -----	—	—	—	—	—	—
Hist. 4A-4B—History of West- ern Civilization -----	—	(6)	—	—	—	—
Electives in Social Science-----	—	—	—	(6)	(6)	—
Fulfillment of requirement in United States History and Constitution (See page 42.)	—	—	—	—	—	—
Spch. 1—Fundamentals of Speech—	3	3	3	3	3	3
Restricted Electives -----	8	8	8†	8	8	8
Chosen from the above General Education fields or from math- ematics, family life education, or not more than six units of foreign language, including:						
Math. D—Intermediate Algebra—	—	3‡	—	3‡	3‡	—
Other Requirements:						
H. Ec. 20—General Nutrition Lec- ture -----	—	—	—	2	—	—
B.A. 14A-14B—Principles of Ac- counting -----	—	6	—	—	—	—

* Starred courses are recommended but not required.

† The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the foreign language requirement. History majors are advised to complete a total of 16 units of foreign language, part of which may be satisfied by courses taken in high school.

‡ Required as prerequisite to Economics 40, unless the student has had equivalent preparation in mathematics.

DEGREE REQUIREMENTS IN SOCIAL SCIENCE MAJOR FIELDS—Continued

Course numbers and titles	Liberal Arts *					
	Social Science	Eco- nomics	His- tory	Social Serv- ice	So- ciol- ogy	Po- litical Science
	(Without a teaching credential)					
Upper Division						
	Units	Units	Units	Units	Units	Units
Major:						
Econ. 100—General Economic Theory -----	—	3	—	—	—	—
Econ. 103—Business Cycles-----	—	3	—	—	—	—
Econ. 135—Principles of Money and Banking -----	—	3	—	—	—	—
Econ. 150—Labor Economics-----	—	3	—	3	3	—
Econ. 190—Principles of International Trade -----	—	3	—	—	—	—
U. D. Economics Elective-----	6	9	—	—	—	—
Hist.—American Survey -----	—	—	6	—	—	6
Hist.—European Survey -----	—	—	6	—	—	—
Hist. 197—Aids to Historical Research or -----	—	—	—	—	—	—
Hist. 198—History and Historians -----	—	—	1	—	—	—
Hist. 196—Special Studies in History -----	—	—	2	—	—	—
U. D. History Elective-----	6	—	—	—	—	3
Soc. 102—Methods in Social Work -----	—	—	—	3	3	—
Soc. 110A-10B—The Social Services -----	—	—	—	6	6	—
Soc. 160—The Family-----	—	—	—	3	3	—
U. D. Sociology Elective-----	—	—	—	6	6	—
U. D. Social Science Elective-----	12	—	9	—	—	—
U. D. Political Science, which may include six units from Hist. 127, Hist. 161B, Hist. 167, Econ. 158, Geog. 123 -----	—	—	—	—	—	15
Other Requirements:						
Psych. 105—Social Psychology-----	—	—	—	3*	3	—
H. & H. 160—Public Health-----	—	—	—	3	3	—
U. D. Business Administration Elective -----	—	6	—	—	—	—
Electives to total -----	124	124	124	124	124	124
Total upper division required-----	40	40	40	40	40	40
Scholarship Requirements:						
In all work taken-----	1.00	1.00	1.00	1.00	1.00	1.00
In major -----	1.00	1.00	1.00	1.00	1.00	1.00

* Starred courses are recommended but not required.

ECONOMICS**Lower Division****1. Introduction to Economics 3 units**

A one-semester survey of economic institutions. Organization and operation of the American economy; consideration of current problems of money, banking, employment, labor, and international trade.

Three one-hour periods per week.

10. Economic Principles 3 units

The economic laws governing production, price determination, and the level and distribution of the national incomes and their application to selected problems.

Prerequisite: Econ. 1.

Three one-hour periods per week.

40. Elementary Statistics 3 units

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in Economics: Economics 1 and 10 or consent of the instructor.

100. General Economic Theory 3 units

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

Three one-hour periods per week.

103. Business Cycles 3 units

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

104. National Income and Employment 3 units

The factors that determine output, national income and employment. Survey of recent monetary-fiscal theories relative to the level of employment. The Keynesian influence on contemporary economic theory.

Three one-hour periods per week.

105. Consumer Economics 3 units

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements 3 units

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

Three one-hour periods per week.

113. Economic and Social History of the United States 3 units

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States. Meets the requirement in United States History established by the Legislature of California.

Three one-hour periods per week.

- 130. Business Finance** 3 units
The instruments and methods of financing the industrial enterprise. Financial practices of firms and their effects upon the economy.
Three one-hour periods per week.
- 131. Public Finance and Taxation** 3 units
Public expenditure, revenue, and borrowing. Fiscal policy and the business cycle. The problem of shifting, incidence, and economic effects of taxes.
Three one-hour periods per week.
- 135. Principles of Money and Banking** 3 units
The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.
Three one-hour periods per week.
- 150. Labor Economics** 3 units
A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.
Three one-hour periods per week.
- 151. Industrial Relations** 3 units
Postwar wage and nonwage practices. Underlying forces in a maturing labor-management relation. The role of the fact-finding board.
Prerequisite: Econ. 150.
Three one-hour periods per week.
- 155. Labor and Social Legislation** 3 units
Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.
Three one-hour periods per week.
- 158. Government and Business** 3 units
Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.
Three one-hour periods per week.
- 185. Social Insurance** 3 units
The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.
Three one-hour periods per week.
- 188. World Population and Resources** 3 units
Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.
Three one-hour periods per week.
- 190. Principles of International Trade and Finance** 3 units
The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.
Three one-hour periods per week.
- 191. International Economic Policy** 3 units
Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which are of special importance for world economic reconstruction, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.
Three one-hour periods per week.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought 3-3 units

The development of economic thought from classical times to the present. Emphasis is given to the study of the physiocrats, Adam Smith, Malthusian school, classicism and utilitarianism, "National School of Political Economy," the historical approach to economics, the rise of socialism and economic radicalism, and recent economic doctrines.

290. Master's Degree Thesis 3 units

See page 39.

299. Special Problems 1-3 units

Assignment of special economic problems for intensive study.

GEOGRAPHY**Lower Division****5. Economic Geography 3 units**

A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.

Three one-hour periods per week.

Upper Division**123. International Geopolitics 2 units**

Geopolitical problems with reference to nationalism, imperialism, and world federation.

Two one-hour periods per week.

HISTORY**Lower Division****4A-4B. History of Western Civilization (year) 3-3 units**

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From the seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

The development of the Western Hemisphere from discovery to the present. The first semester emphasizes exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

Three one-hour periods per week.

70. History of the United States 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States history established by the Legislature of California.

Two one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

100. Contemporary Events 2 units

An evaluation of present day problems and a critical appraisal of recent thinking about American foreign policy.

Two one-hour periods per week.

121A-121B. The Middle Ages (year) 3-3 units

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. World Organization for Peace 3 units

A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.

Three one-hour periods per week.

142. Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries 3 units

The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.

Three one-hour periods per week.

143. Europe in the Nineteenth Century 3 units

European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.

Three one-hour periods per week.

144. Europe Since 1870 3 units

The history of Europe with special stress on the causes of the world wars and wars themselves.

Three one-hour periods per week.

148. Recent World History 3 units

Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.

Three one-hour periods per week.

149. History of Russia 3 units

Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, world politics, and world economics.

Three one-hour periods per week.

151A-151B. Economic, Political and Social History of England 3-3 units

A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.

Three one-hour periods per week.

153. History of England 2 units

A study of the English people through a survey of their political, economic, social, and cultural history.

Two one-hour periods per week.

161A-161B. Hispanic America 3-3 units

The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia.

Three one-hour periods per week.

- 167. The Foreign Relations of the United States** **3 units**
 The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position.
 Three one-hour periods per week.
- 168. The United States as a World Power** **3 units**
 The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence.
 Three one-hour periods per week.
- 171. The United States: Colonial Period** **3 units**
 Political, social, and constitutional history of the United States through the colonial period to 1789.
 Three one-hour periods per week.
- 172. The United States: The Nineteenth Century** **3 units**
 Social, cultural, and political history of the United States from Washington's administration to 1898.
 Three one-hour periods per week.
- 174. The United States: The Twentieth Century** **3 units**
 Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.
 Three one-hour periods per week.
- 179. American Constitutional History** **3 units**
 A study of the Federal Constitution from the historical standpoint, with emphasis upon the constitutional convention and the constitutional controversies of the nineteenth and twentieth centuries.
 Three one-hour periods per week.
- 181. History of the Westward Movement** **3 units**
 A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.
 Three one-hour periods per week.
- 188. History of California** **2 or 3 units**
 The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.
 Two one-hour periods per week.
- 196. Special Studies in History** **2 units**
 Individual investigation of selected topics. Required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.
- 197. Aids to Historical Research** **1 unit**
 An introduction to historical method, including a study of the auxiliary sciences.
- 198. History and Historians** **1 unit**
 A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.
- 199. Special Problems** **1-3 units**

Graduate Division

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 196 or equivalent.

- 254A-254B. Seminar in Modern European History** **3-3 units**
 Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.

- 281A-281B. Seminar in American History** **3-3 units**
 Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.
- 288A-288B. Seminar in California History** **3-3 units**
 Studies in California history, with emphasis upon the development of local institutions and industries.
- 290. Master's Degree Thesis** **3 units**
 See page 39.

PHILOSOPHY

Lower Division

- 6A-6B. Introduction to Philosophy (year)** **3-3 units**
 First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge.
 Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.
 Three one-hour periods per week.

POLITICAL SCIENCE

Lower Division

- 1A-1B. Introduction to Government (year)** **3-3 units**
 A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed.
 Three one-hour periods per week.
- 51. American Constitutional Government** **2 units**
 A study of the structure, operation, and development of the American constitutional system, including state and local government.
 This course meets the requirements in United States Constitution, state and local government established by the Legislature of California.
 Two one-hour periods per week.

Upper Division

- Six units taken from Hist. 124, Hist. 161B, Hist. 167, Econ. 158, and Geog. 123, may count as a part of the requirement in the political science major.
- 113. History of Political Thought** **3 units**
 A survey and critical analysis of the major political ideas from the Greeks to the present with particular emphasis on recent political thought.
 Three one-hour periods per week.
- 114. Public Opinion and Propaganda** **3 units**
 An analysis of the nature of public opinion and the techniques of measuring and manipulating it. Emphasis is placed upon the relationship between government and public opinion.
 Three one-hour periods per week.
- 115. American Political Thought** **3 units**
 A critical analysis of American political thought with particular emphasis upon the contemporary period.
 Three one-hour periods per week.

127. International Relations 3 units

A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.

Three one-hour periods per week.

152. American Political Parties 3 units

The role of political parties and pressure groups in American government. Opportunity is given for direct participation in political activities.

Three one-hour periods per week.

157. American Constitutional Law 3 units

An analytical study of the role which the courts have played in the development of the American system of government.

Three one-hour periods per week.

181. Principles of Public Administration 3 units

The development of public administration and its relation to other branches of government powers and liabilities of administrative officials, and organization for governmental functions.

Three one-hour periods per week.

199. Special Problems 1-3 units

Investigation of selected problems in political science; open to advanced students with the consent of the instructor.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in political science.

299. Special Problems 1-3 units

Investigation of selected problems in political science; open to graduate students with the consent of the instructor.

SOCIOLOGY

For the major in Sociology, Econ. 150, Psych. 105, and H.&H. 160 are included as a part of the major.

Lower Division**1A-1B. Introduction to Sociology (year) 3-3 units**

1A—An introduction to the study of the social life of man and its relations to the factors of culture, natural environment, heredity, and the group.

1B—Social problems in the contemporary world.

Three one-hour periods per week.

60. The Family 3 units

See Sociology 160.

Upper Division

Prerequisite to upper division courses in sociology: Sociology 1A-1B or consent of instructor.

102. Methods in Social Work 3 units

An introduction to the methods of case work, group work and community organization, with special emphasis on case-work techniques and skills. Includes approximately 50 hours of field work, under supervision, in community agencies.

Prerequisites: Sociology 110A-110B (110B may be taken concurrently) and the consent of the instructor.

Three one-hour periods per week.

103A-103B. Crime and Delinquency (year)

2-2 units

103A—Crime: the nature and extent; theories of causal factors; local, state, and federal programs for dealing with the adult criminal. The place and use of probation and parole.

103B—Delinquency: the nature and extent of juvenile delinquency; theories of causal factors; programs for dealing with the delinquent and for the prevention of juvenile delinquency.

Two one-hour periods per week.

106. Community Organization

2 units

The concept of the community, the sociological background of community organization. Methods in studying the community.

Two one-hour periods per week.

109. Race Relations

3 units

History and status of the principal racial and ethnic minority groups in the United States; relations between minority and majority groups; the nature of prejudice and programs for the control and mitigation of discrimination and prejudice.

Three one-hour periods per week.

110A-110B. The Social Services

3-3 units

110A—Historical development of the social services, including relationships between private and public services. Certain field trips are made to local offices of social agencies.

110B—Modern social services—their organization and programs—with special emphasis on the public social services. Certain field trips are made to local offices of social agencies.

Three one-hour periods per week.

143. Urban Sociology

3 units

The modern city contrasted with earlier cities; the structure and characteristics of the modern urban center and the effects of these on the social institutions; problems of rapid urbanization.

Three one-hour periods per week.

144. Rural Social Problems

3 units

Sociological study of the rural community and an analysis of the social problems of the present-day rural community.

Three one-hour periods per week.

152. Child Welfare

3 units

Needs of dependent and neglected children and existing programs for the care and protection of these children. Application of case work methods to child welfare.

Three one-hour periods per week.

160. The Family

3 units

Emphasis is on specific aspects of modern family living including preparation for marriage, interpersonal relationships, and particular fields of knowledge important to family life. Background is provided by initial study of the cultural forms of family life and the historical development of the American family.

Three one-hour periods per week.

199. Special Problems

1-3 units

Investigation of selected problems in sociology; open to advanced students with the consent of the instructor.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in sociology.

299. Special Problems

1-3 units

Investigation of selected problems in sociology; open to graduate students with the consent of the instructor.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The program for a Group Major must include the following :

Lower Division	<i>Units</i>
Engl. 1A—First-year Reading and Composition	3
H.&H. 1—Personal Health and Safety.....	2
Literature, Philosophy or the Arts	6
(Fine and applied arts not to exceed three of the six)	
Natural Sciences	9
(Including one biological and one physical science)	
Physical Education Activities	2
Psych. 1—General Psychology	3
Social Sciences	9
(Including fulfillment of the requirement in United States history and constitution. See page 42.)	
Spch. 1—Fundamentals of Speech	3
Restricted Electives	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)	
Completion of all prerequisites for the major.	
Upper Division	
Major (See below)	36
U. D. Electives	4
Electives to total	124
Scholarship Requirements:	
In all work taken	1.00
In each division of the major	1.00

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 41 and 42 or from subdivisions of those fields, as listed under the various divisions of the curriculums. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements:

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (i.e., 24 units, at least 12 of which are in the upper division).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (i.e., 12 units, at least six of which are in the upper division).

SUGGESTED GROUP MAJORS

Allied Arts
(See page 86)
English
Foreign Language
Speech

English
Journalism
Social Sciences

Education
Social Service
Home Economics

Drama
Education
English

English
History
Economics

Natural Sciences
Physical Education
Social Service

Radio
Business Administration
Journalism

Recreation
Conservation and
Wildlife Management
Arts and Crafts or
Education

Music
Speech
English

Natural Sciences
Business Administration
Mathematics

Social Sciences
Foreign Languages
Speech-Radio

Radio
Education
Social Service

HUMBOLDT STATE COLLEGE DIRECTORY OF PERSONNEL

Administered Through the
 STATE DEPARTMENT OF EDUCATION

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 J. BURTON VASCHE.....Associate Superintendent of Public Instruction
 and Chief, Division of State Colleges and Teacher Education

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Coordinator of Student Affairs	Richard E. Harmer
Associate Dean of Students (Activities)	Kate Buchanan
Associate Dean of Students (Guidance)	Edward N. Girard
Secretaries to the Deans of Students	Mrs. Delta Benoit, Mrs. Elaine Dufour
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College Physician	George C. Scheppler, M.D.
College Nurse	Mrs. Beverly Griffith, R.N.
Consulting Dentist	Noah A. Stromberg, D.D.S.
Dean of Educational Services and Summer Sessions	Ivan C. Milhous
Secretary, Summer Sessions and Teacher Placement	Mrs. Mary Louise Humphrey
Business Manager	Frank E. Devery
Secretary to the Business Manager	Mrs. Charlotte Johnson
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Accounting Technician	Frances Merrill
Property Clerk	Thomas Wright
Switchboard Operator	Mrs. Doris Peters
Chief of Maintenance	William Johnson
College Librarian	Mrs. Helen Everett
Clerical Assistants: Marietta Anderson, Mrs. Dorothy Bullen, Mrs. Edna Johnson, Mrs. Arlene Goetz, James Frasier, Mrs. Jess Lewis, Janell Linderman, Mrs. Barbara McCabe, Mrs. Maryn McPherson, Mrs. Edna Ritter, Ann Sherman, Jane Sherman, Nelcyne Smith, Mrs. Nadine Soulé, Mrs. Barbara Stringfield, Marilyn Trump, Mrs. Betty Wolfer.	

DIVISION CHAIRMEN AND ASSISTANTS

Division of Business	William A. Jackson
Division of Education and Psychology	Harry E. Griffith
Coordinator of Student Teaching	Kasper I. Ingebritson
Principal of the College Elementary School	William Raleigh
Secretary to the Principal, College Elementary School	Ruby Hartoebben
Division of Fine and Applied Arts	Leland Barlow
Division of Health and Physical Education	Joseph Forbes
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Science	Stanley S. Spaid
Secretary to Division Chairmen	Mrs. Margery Anderson

FACULTY

1954-55

(Date indicates year of appointment to faculty)

- ARNOLD, HOMER L., M.A.----- (1921) Professor of Mathematics and Philosophy
B.S., Indiana State Teachers College (Eastern Division); A.B., University of
Indiana; M.A., University of Chicago; additional graduate study, University of
Chicago, Stanford University, University of Michigan.
- BAKER, JOHN W., Ph.D.----- (1953) Assistant Professor of Political Science
B.A., University of Texas; graduate work, University of Texas; Ph.D., Uni-
versity of California at Berkeley.
- BALABANIS, HOMER P., Ph.D.----- (1928) Dean of Instruction
Professor of Economics
Ph.B., M.A., University of Chicago; Ph.D., Stanford University.
- BARLOW, KATHRYN, M.S.----- (1946) Assistant Professor of English
A.B., Oberlin College; graduate study, University of Bordeaux; M.A., Oberlin
College; additional study, University of Wisconsin, University of Mexico, Uni-
versity of New Mexico, University of Southern California.
- BARLOW, LELAND, M.A.---- (1946) Chairman, Division of Fine and Applied Arts
Associate Professor of Music
Mus. B., Oberlin Conservatory; M.A., State University of Iowa; additional
graduate study, University of Southern California.
- BEDNAR, ERNEST G., M.S.----- (1954) Assistant Professor of Industrial Arts
B.S., Billings Polytechnic Institute; M.S., Iowa State College; additional grad-
uate work, University of Minnesota, University of Missouri.
- BISSELL, DOROTHY, M.A.----- (1954) Assistant Professor of Home Economics
A.B., University of California at Berkeley; graduate study, University of Cali-
fornia at Santa Barbara, Oregon State College, University of California at Los
Angeles; M.S., Cornell University.
- BOEHMLER, RICHARD M., Ph.D.----- (1954) Assistant Professor of Speech
Grinnell College; B.A., M.A., Ph.D., State University of Iowa.
- BRANT, DANIEL, Ph.D.----- (1952) Assistant Professor of Biological Science
B.A., University of Minnesota; M.A., University of Washington; Ph.D., Uni-
versity of California.
- BROWN, HONOR, A.B.----- (1947) * (1954) Assistant in Education
Supervising Teacher, C.E.S.
University of California at Los Angeles; A.B., Humboldt State College.
- BUCHANAN, KATE, M.A.----- (1946) Associate Dean of Students (Activities)
Associate Professor of Speech
A.B., University of Oregon; M.A., Washington State College; additional grad-
uate study, Columbia University.
- BULLEN, REESE, M.A.----- (1946) Associate Professor of Art
B.S., Utah State Agricultural College; M.A., Stanford University; additional
graduate study, Academy of Advertising Art, California College of Arts and
Crafts, Mills College. Member, S. F. Potter's Association.
- CAVINESS, LOIS C., A.B.----- (1953) Assistant in Education
Supervising Teacher, C.E.S.
A.B., Humboldt State College; graduate work, Humboldt State College.
- CHAMBERS, HAL DICK, M.A.----- (1953) Assistant Professor of Art
B.A., Central Washington College of Education; M.A., Columbia University;
additional study, University of Washington.

* Resigned (1953-54).

- CORBETT, KATHRYN, A.B., R.S.W.----- (1952) Assistant Professor of Sociology
A.B., University of Redlands; additional graduate study, University of Chicago,
Humboldt State College, University of Southern California.
- CORNELIUS, SARAH R., M.A.----- (1944) Assistant Professor of Education
Ed. B., University of California at Los Angeles; M.A., Columbia University;
additional graduate study, University of California, Humboldt State College, Stan-
ford University.
- DASMAN, RAYMOND, Ph.D.--- (1954) Assistant Professor of Biological Science
San Francisco State College; A.B., M.A., Ph.D., University of California at
Berkeley.
- DEVERY, FRANK E., M.A.----- (1951) Business Manager
B.A., University of Idaho; M.A., Stanford University; additional graduate
study, University of Washington, State College of Washington.
- DEWITT, JOHN W., M.S.----- (1949) Associate Professor of Biological Science
B.S., Oregon State College; M.S., Oregon State College; additional graduate
study, Stanford University.
- DOORNINK, ROBERT H., M.S.--- (1954) Assistant Professor of Physical Education
B.S. in Physical Education, State College of Washington; B.Ed., State College
of Washington; M.S. in Physical Education, State College of Washington.
- FARR, MARY B., M.S.----- (1952) Assistant Professor of Home Economics
B.S., M.S., Oregon State College; additional graduate study, Oregon State Col-
lege, Humboldt State College.
- FORBES, JOSEPH M., Ed.D.--- (1946) Chairman, Division of Health and Physical
Education; Professor of Physical Education
A.B., Occidental College; M.S., University of Oregon; graduate study, Occi-
dental College, University of Southern California; Ed.D., University of Oregon.
- FULKERSON, CHARLES, A.B.----- (1941) Associate Professor of Music
A.B., San Jose State College; graduate study, University of Southern Cali-
fornia, Columbia University, Juilliard School of Music, Union Theological Sem-
inary. Piano study under Benning Dexter, John Crown, Abby Whiteside; Asso-
ciate Conductor and Soloist, Carmel Bach Festival.
- GILLILAND, CLEBURNE H., M.A.----- (1953) Instructor in Education
Supervising Teacher, C.E.S.
University of Colorado; A.B., M.A., Western College of Colorado; additional
study, State College of Washington, Colorado State College of Education.
- HIRARD, EDWARD, Ed.D.----- (1952) Associate Dean of Students (Guidance)
Assistant Professor of Education and Psychology
A.B., Northland College, Ashland, Wisconsin; M.S. in Ed., University of South-
ern California; Ed.D., Stanford University.
- GIVINS, FRANCIS L., A.B.----- (1953) Lecturer in Physical Education
A.B., Humboldt State College; additional study, University of Southern Cali-
fornia, University of California at Berkeley.
- GLEND, FLOYD A., M.M.----- (1953) Assistant Professor of Music
B.S., in Educ., Northern State Teachers College, South Dakota; M.M. in Educ.,
Northwestern University.
- GOTT, LOIS K., M.S.----- (1952) Assistant Professor of Physical Education
A.B., College of Idaho; M.S., University of Oregon; additional graduate study,
Mills College, Eastern Oregon College of Education, California State Polytechnic
College.
- GRAHAM, RAE, A.B.----- (1955) Assistant in Business Administration
A.B., Humboldt State College.

- GRIFFITH, HARRY E., Ed.D.**----- (1939) Chairman, Division of Education and Psychology; Professor of Education Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study, Claremont College; Washington and Lee University, University of Virginia, University of Southern California; Ed.D., Stanford University.
- GRILLEY, HELEN E., M.Ed.**----- (1954) Instructor in Education Supervising Teacher, C.E.S. A.B., Montana University; additional study, University of Oregon; M.Ed., University of Montana; additional graduate study, Southern Oregon College of Education, Western College, Dillon, Montana.
- HAGNE, HAZEL, M.A.**----- (1950) Assistant Professor of Education A.B., Humboldt State College; additional graduate study, University of California; M.A., Columbia University; additional study, University of California at Los Angeles.
- HALL, BERNARD, A.B.**----- (1953) Assistant Professor of Economics A.B., Brooklyn College; additional study, University of California.
- HICKLIN, MAURICE, M.A.**----- (1925) Chairman, Division of Language and Literature; Professor of English A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M.A., Stanford University; additional study, Stanford University.
- HOLLSTEIN, MILTON C., Ph.D.**----- (1954) Assistant Professor of Journalism A.B., University of Utah; M.S., Columbia University; Ph.D., State University of Iowa.
- INGEBRITSON, KASPER I., Ed.D.**----- (1950) Coordinator of Student Teaching Associate Professor of Education B.Ed., State Teachers College, Bemidji, Minnesota; graduate study, University of Minnesota; M.A., Claremont College Graduate School; Ed.D., Stanford University.
- INGEBRITSON, THELMA L., B.S.**----- (1952) Assistant in Education Supervising Teacher, C.E.S. B.S., University of Minnesota; graduate study, University of Minnesota.
- JACKSON, WILLIAM, M.B.A., C.P.A.**----- (1946) Chairman, Division of Business Associate Professor of Business Administration B.S., M.B.A., University of California; C.P.A., State of California.
- JOHNSEN, PAUL G., B.M. in Composition** ----- (1954) Instructor in Music Stockton College; College of the Pacific; B.M. in Composition; additional study, University of Southern California.
- KARSHNER, DON W., Ed.D.**----- (1941) Dean of Students Professor of Speech A.B., Washington State College; Ed.D., Stanford University.
- KELLENBERGER, ELEANOR, A.B.**----- (1938) Assistant in Education Supervising Teacher, C.E.S. A.B., Humboldt State College; additional graduate study, University of California at Los Angeles, Humboldt State College.
- KINZER, CEDRIC R., M.A.**----- (1953) Assistant Professor of Physical Education A.B., Valley City State Teachers College; M.A., Colorado State College of Education; additional study, Colorado State College of Education, Northern Idaho College of Education.
- LADD, WILLIAM J., Ed.D.**----- (1954) Assistant Professor of Speech and Radio A.B., Pacific University; M.A., Ed.D., State College of Washington; graduate study, University of Washington.
- LANPHERE, WILLIAM M., Ph.D.**----- (1936) Professor of Biological Science B.S., M.S., Ph.D., University of Washington.

- McDERMID, CHARLES G., B.S.----- (1950) Instructor in Education
Supervising Teacher, C.E.S.
B.S., University of Santa Clara; graduate study, Humboldt State College.
- MacGINITIE, HARRY D., Ph.D.----- (1927) Chairman, Division of Natural
Sciences; Professor of Physical Science
A.B., Fresno State College; additional graduate study, Stanford University;
Ph.D., University of California.
- McKITTRICK, MYRTLE M., A.B.----- (1938) Registrar and Admissions Officer
A.B., Willamette University; graduate study, University of Washington.
- MACPHERSON, HELEN, A.B.----- (1948) Assistant in Education
Supervising Teacher, C.E.S.
A.B., George Peabody College.
- MARX, LAWRENCE N., Ph.D.----- (1952) Assistant Professor of Psychology
Coordinator, Audio-Visual Aids
B.S., Kansas State College; M.S., Kansas State College; additional graduate
study, Columbia University; Ph.D., Ohio State University.
- MEARNS, JAMES T., M.Mus.----- (1950) Assistant Professor of Music
B.Mus., Oberlin Conservatory of Music; M.Mus., University of Michigan,
postgraduate study in musicology, University of Michigan; master classes in
organ with Joseph Bonnet.
- MILHOUS, IVAN C., Ph.D.----- (1946) Dean of Educational Services and Summer
Session; Coordinator of Graduate Studies; Professor of Education
A.B., Penn College; additional study, Iowa State Teachers College; M.A.,
Haverford College; additional graduate study, Iliff School of Theology, State
University of Montana; Ph.D., State University of Iowa.
- * PALAIS, HYMAN, Ph.D.----- (1946) Professor of History
A.B., M.A., Ph.D., University of California at Los Angeles.
- PARKE, E. CHARLES, M.A.----- (1953) Assistant Professor of Physics
A.B., M.A., University of Redlands; graduate study, University of California
at Los Angeles; University of Redlands, Fresno State College.
- PARTAIN, GERALD L., B.S.--- (1954) Assistant Professor of Forestry-Lumbering
University of the South, Tennessee; B.S. in Naval Science, University of
Southern Carolina; B.S. in Forestry, Oregon State College; graduate study,
University of California at Berkeley.
- PAULEY, JOHN F., Ph.D.----- (1952) Assistant Professor of Speech and Drama
A.B., Trinity College; M.F.A., Ph.D., State University of Iowa.
- PEITHMAN, ROSCOE, Ed.D.----- (1946) Associate Professor of Physical Science
and Industrial Education
B.Ed., Southern Illinois University; M.S., University of Illinois; Ed.D.,
Oregon State College.
- PIERSON, EDWIN, M.F.----- (1953) Assistant Professor of Forestry-Lumbering
B.S., M.F., Oregon State College.
- PLATT, IMOGENE B., M.A.----- (1926) Assistant Professor of
Business Administration
A.B., University of Washington; graduate study, Stanford University; M.A.,
University of Washington; special study on business machines: Metropolitan
Business College, Montana Business College, Bellingham Business College, Uni-
versity of Washington, Burroughs School of Instruction.
- RALEIGH, WILLIAM H., Ed.D.----- (1953) Principal, College Elementary School
Associate Professor of Education
B.S., Wisconsin State College; M.E., Marquette University; Ed.D., University
of Indiana.

* On leave, spring, 1955.

- RHEA, MARK B., Ph.D. ----- (1953) Associate Professor of Agriculture
B.S., M.S., Ph.D., Iowa State College.
- SARBOE, PHILIP J., B.S. ----- (1951) Director of Athletics
Lecturer in Physical Education
B.S. and additional graduate study, Washington State College, Central Washington College, California Polytechnic College, University of Nevada.
- SCHULER, MELVIN A., JR., M.F.A. ----- (1947) Associate Professor of Art
B.A.Ed., M.F.A., California College of Arts and Crafts.
- SIEMENS, CORNELIUS H., Ph.D. ----- (1950) President
B.A., M.A., Ph.D., University of California at Berkeley.
- SINCLAIR, GILES M., Ph.D. ----- (1953) Assistant Professor of English
B.A., Western Michigan College; M.A., Duke University; Ph.D., University of Michigan.
- SLOTNICK, HERMAN, B.A. ----- (1955) Assistant Professor of Social Science
B.A., University of Idaho; additional graduate study, Stanford University, University of Washington, University of Manchester, England.
- SMITH, ARTHUR McE., Ph.D. ----- (1948) Associate Professor of Chemistry
A.B., San Francisco State College; additional graduate study, New York University; M.A., Ph.D., Stanford University.
- SOULE, DONALD M., Ph.D. ----- (1953) Assistant Professor of Economics
B.A., University of Washington; M.S., Ph.D., University of Wisconsin.
- SPAID, STANLEY S., Ph.D. ----- (1949) Chairman, Division of Social Science
Associate Professor of History
B.A., University of Idaho; M.A., University of Idaho; additional graduate study, University of Oregon, University of Michigan, University of Wisconsin; Ph.D., University of Oregon.
- * STEGEMAN, ARTHUR L., M.A. ----- (1951) Assistant Professor of Industrial Arts
B.S., Nebraska State Teachers College; additional study, University of Idaho; M.A., Colorado State College of Education; additional work, Colorado State College, State College of Washington, University of Missouri.
- STRAND, CARL B., Ph.D. ----- (1951) Assistant Professor of Business Administration
B.S., Iowa State Teachers College; M.A., Ph.D., State University of Iowa.
- TELONICHER, FRED, A.B. ----- (1927) Professor of Biological Science
A.B., Fresno State College; additional work, Stanford University, Hopkins Marine Station, Pacific Grove.
- * TELONICHER, MARGARET, A.B. ----- (1947) Assistant in Education
Supervising Teacher, C.E.S.
A.B., Humboldt State College.
- TRAINOR, JOSEPH C., Ph.D. ----- (1953) Assistant Professor of Education
Washington State Normal; B.S., University of Oregon; M.A., Ph.D., University of Washington; further study, Columbia University.
- TURNER, LAWRENCE E., Ph.D. ----- (1951) Executive Dean
Professor of Education
A.B., McPherson College; additional graduate study, University of Kansas, George Washington University; College of the Pacific; M.A., Ph.D., University of California at Berkeley.
- VAN DUZER, JOHN, M.A. ----- (1941) Associate Professor of Speech and Drama
A.B., Humboldt State College; M.A., University of Southern California; additional graduate study, Stanford University, University of California at Los Angeles.

* On leave, 1954-55.

- WARD, ELIZABETH B., M.A.----- (1953) Instructor in Education
Supervising Teacher, C.E.S.
A.B., University of Iowa; M.A., Northwestern University.
- WASSERMAN, WILLIAM J., Ph.D.----- (1954) Assistant Professor of
Physical Science
B.S., in Chemistry, University of California at Los Angeles; M.S. in organic
chemistry, University of Southern California; Ph.D. in organic chemistry, Uni-
versity of Washington.
- WATKINS, MARTIN A., M.A.----- (1954) Instructor in English
Brooklyn Evening College, George Washington University (evening); A.B.,
University of North Carolina; M.A., Indiana University; graduate study, Uni-
versity of Pennsylvania.
- WATSON, LOUISE, Ph.D.----- (1953) Assistant Professor of Physical Education
A.B., University of Oregon; M.A., University of Illinois; additional graduate
study, University of Iowa; Ph.D., University of Oregon.
- * WHITE, REGINALD LOUIS, Ed.D.----- (1946) Professor of English
A.B., First Class Honors in English, University of London, England; M.A.,
Northwestern University; Ed.D., Stanford University.
- WOOD, FRANK B., Ph.D.----- (1953) Assistant Professor of Foreign Languages
A.B., University of Maine; M.A., Ph.D., State University of Iowa.
- WOODWARD, ROBERT M., Ed.D.----- (1953) Assistant Professor of
Business Education
B.S., Brigham Young University; M.S., Oregon State College; Ed.D., Oregon
State College.
- YOCOM, CHARLES, Ph.D.----- (1953) Associate Professor of Biological Science
B.S., Iowa State College; M.S., Ph.D., State College of Washington.

* On leave, 1954-55.

PART-TIME INSTRUCTORS

- BAKER, MARY P., B.J.----- (1953) Assistant in English and Journalism
B.J., University of Texas.
- CAMERON, FRANK J., M.S.----- (1951) Assistant Professor of Education
B.S., University of Oregon; additional graduate study, San Francisco State
College; M.S., University of Southern California; additional study, University
of California at Berkeley.

COLLEGE LIBRARY STAFF

(Date indicates year appointed to Library Staff)

- EVERETT, HELEN A., M.A.----- (1939) College Librarian
A.B., University of Oregon; Certificate of Librarianship and M.A., University
of California; graduate study, Stanford University.
- GALLOWAY, RICHARD DEAN, M.S. in L.S.----- (1947) Librarian III
A.B., Humboldt State College; M.S. in L.S., University of Southern California.
- BLOOM, CHARLES, M.A.----- (1952) Librarian II
B.L.S., A.B., M.A., graduate study, University of California.
- BUTLER, ELEZE, A.B.----- (1952) Librarian II
A.B. and Certificate of Librarianship, University of California.
- MALOY, MIRIAM A., A.B.----- (1950) Librarian II
A.B., and Certificate of Librarianship, University of California; additional
graduate study, University of California.
- ANDERSON, PATRICIA ANNE, A.B.----- (1953) Librarian I
A.B., B.L.S., University of California.
- HAVERSTOCK, WILLIAM, M.A.----- (1952) Librarian I
A.B., Macalester College; M.A., Stanford University; B.L.S., University of
California.
- KINGSBURY, RAPHAELLA, B.S.----- (1953) Librarian I
A.B., George Washington University; B.S., Columbia University, School of
Library Service.

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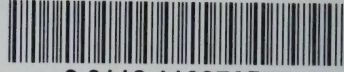
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